

50X1-HUM

# INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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COUNTRY China

REPORT

SUBJECT Chinese Communist Export Catalogs

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REFERENCES

DATE OF INFO.

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

- a. Items offered by the China National Instruments Import Corporation (CNIIC):

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DKZ-20 interdepartment dispatching telephone switchboard (folder, in English)  
 C-24 C. B. and automatic desk type telephone sets (folder, in English)  
 Chinese typewriter, Wan Neng (5502/5174) brand (instruction booklet, in Chinese, illustrated)  
 Portable Kelvin bridge, Type 101 (instruction manual, in English)  
 Photoelectric colorimeter, Model 93B (leaflet, in English)  
 Battery-operated radio receiver (leaflet, in English)  
 "Friendship" brand radio-phonograph combination, Model 722-551 (folder, in English)  
 Automatic record changer, Model "54" (folder, in English and Chinese)  
 Record player, Model 56-1 (leaflet, in English and Chinese)  
 Terrestrial globe (leaflet, in English and Chinese)  
 ZIN-E-TONE adjustable hearing aid (operation and maintenance instructions, folder, in English)  
 TLO-60 alarm receiving board, radiation type (folder, in English)

- b. Items offered by the China National Transport Machinery Import Corporation (CNTMIC):

Rubber mixing mill (leaflet, in English and Chinese)  
 Full circle tire retreading machine, Model TR (leaflet, in English)  
 Stud making machines (leaflet, in English)  
 Engraving instrument (leaflet, in English)

- c. Chemicals offered by the China National Import and Export Corporation (CNIEC), for which inquiries were to be addressed to CNIEC, Tientsin: chromic acid, phosphoric acid; sodium sulfide, anhydrous sodium sulfate; carbolic acid (phenol), cresylic acid (three leaflets, in Chinese and English).

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STATE	<input checked="" type="checkbox"/> ARMY	<input checked="" type="checkbox"/> NAVY	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> FBI	<input type="checkbox"/> AEC	<input type="checkbox"/> BFC	<input checked="" type="checkbox"/> Treas	<input checked="" type="checkbox"/>
(Note: Washington distribution indicated by "X"; Field distribution by # )								

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## d. Items offered by the China National Sundries Export Corporation (CNSEC):

Gramophone, Model 102 (leaflet, in English)  
 "Electrician" fluorescent tubes (leaflet, in English)  
 "Wha Teh" (Hua Te, 5478/1795) electric bulbs (folder, in English)  
 Aurora fire extinguishers (folder, in English)  
 Diamond brand pliers (folder, in English)  
 Unique brand screw drivers (folder, in English)  
 Galvanized iron wire (folder, in Chinese and English)  
 Iron wire nails (folder, in Chinese and English)  
 Countersunk head wood screws (folder, in Chinese and English)  
 Iron butts (folder, in English)  
 HERO brand spring hinges, single-action (leaflet, in English)  
 HERO brand spring hinges, double-action (leaflet, in English)  
 Iron hinges and tower bolts (folder, in Chinese and English)  
 Iron tower bolts (folder, in English)  
 Whippet door locks (folder, in English)  
 Lion brand door pulls (leaflet, in Chinese and English)  
 "Yung Sun" (Yung Sheng, 3057/3932) brand bronze-plated inside door locks  
 (leaflet, in English)

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Attachments, unclassified when detached from this report

## Distribution of Attachments:

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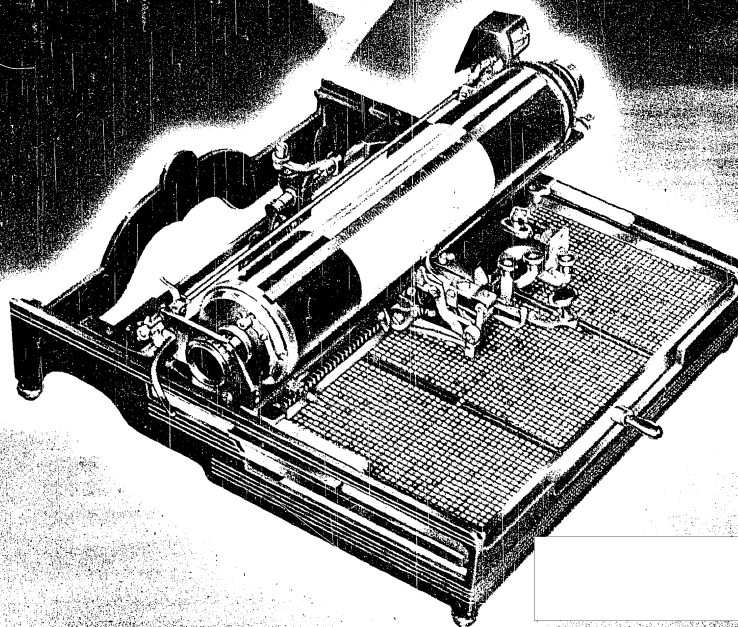
ORR (loan, two weeks)

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# 萬能式中文打字機

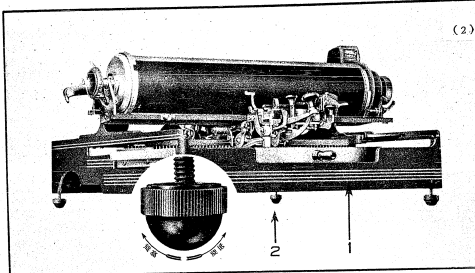


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(2) 機架調節水平圖



號次	機件編號	機件名稱
1	1/0-1	機架
2	1/0-3	機腳

## 說明：

機架是生鐵鑄成，如果重大震盪，極易破損。破損的地方為了生鐵的不足加工。為此，在放箱時應特別注意機架是否平，放箱時必須輕放勿尾，使可能避免劇震，才得保護機架完整。

放置機器，首先要考慮是否水平，如因地不平高低不等，致有傾斜現象，可照圖旋轉機腳，調節水平。要測驗機器是否水平，可推動機身，推到中途放手，機身沒有偏向任何一方滑動的現象，機器運轉，便得輕快。

號次	機件編號	機件名稱
1	1/0-7	機架彈子盤
2	2/0-6	字盤極兩刀輪
3	2/0-9	字盤極推手柄
4	2/0-1	字盤極前鉄板
5	2/0-2	字盤極後鉄板
6	2/0-3	字盤極左鉄板
7	2/0-4	字盤極右鉄板
8	2/0-12	字盤
9	3/0-14	大開刀牙齒
10	3/0-14-2	大開刀牙齒角尺板
11	3/0-14-5	大開刀牙齒角尺板轉輪

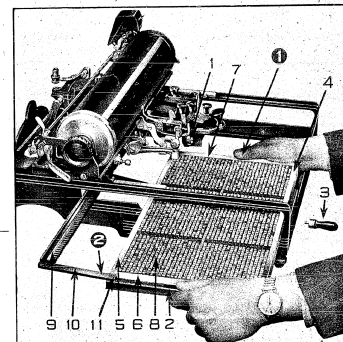
## 說明：

①字盤的結構以前後左右四根鐵板包圍而成。裝卸字盤時要在機架彈子盤和轉輪上自右向左移動，可免損壞字盤。

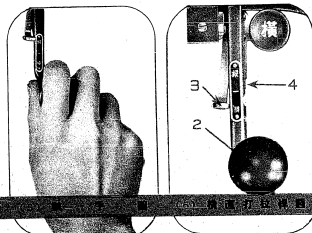
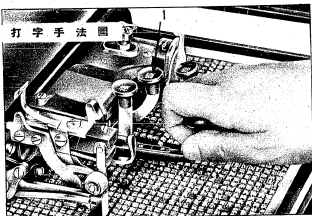
②大開刀牙齒角尺板插入字盤極兩刀輪中後，裝上字盤推手柄。

③字盤係由鐵片編串而成。當鋼字將落入字盤時，不可推動字盤或機身，否則，易使字盤鐵片發生彎曲。

(3) 字盤和大開刀牙齒裝卸圖



(4) 打字手法圖



## 說明:

①執筆法: 用食指前後座拉; 左移用中指; 右移用中指; 和移則三指並用。這種打字法比較省力而為準確。

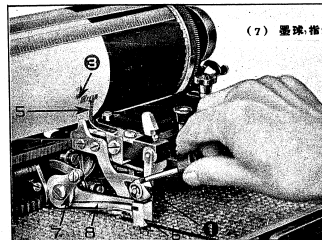
②橫直打字作用: 拉桿拉在「橫」字邊, 打字就直格; 拉桿拉在「直」字邊, 打字就直格; 拉桿拉在中橫邊, 打字時橫直都不走格, 但可兼打。如先打( ), 再打2, 就成(2)。

注意: 拉動拉桿要注意不可拉過提手得柄, 應把拉桿拉到機動板(見圖21)機動板下面, 始能撥打。

③直打空格: 可撥機鈕, 按一下, 就是空一個字間, 需要空白多少字間, 就撥多少次。

號次	機件編號	機件名稱
1	4/4-16	縱 鈕
2	4/4-7	撥 手 桿 柄
3	4/4-12	橫 直 打 拉 桿
4	4/4-1-7	橫 直 小 牌 子

(7) 墨球指示標計圖



## 說明:

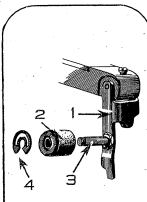
①墨球上墨要均勻適量。

②墨球使用日久, 就要包損, 影響打字上和墨色。換裝墨球用絲子向上拉去墨球夾, 就可進行換卸。

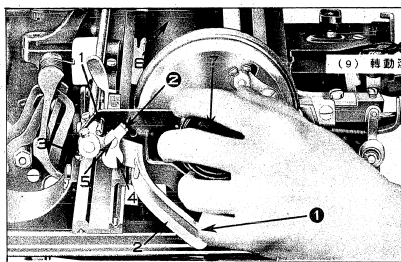
③指示標計的用途, 上端方塊用來校正字位; 臂部上的線條, 可運用它來測知字行間距。

注意: 字縫方孔是卡住鋼字的所在, 裝裝是裝裝活活, 裝裝鋼字上下, 因此要經常用形像裝入方孔驗試乾淨。

(8) 墨球架裝卸圖



號次	機件編號	機件名稱
1	4/10-1	墨 球 架
2	4/10-5	墨 球
3	4/10-6	墨 球 軸
4	4/10-7	墨 球 夾
5	4/9-1	指 示 標 針
6	4/8-1-1	字 縫
7	4/8-6	字 縫 桃 子 板
8	4/8-7	字 縫 卡 字 桿

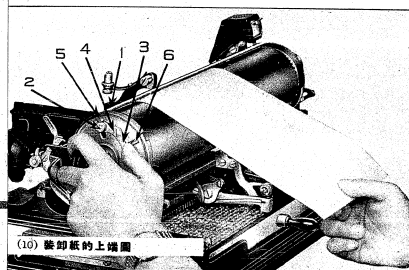


(9) 轉動滾筒及直離格圖

號次	機件編號	機件名稱
1	5/1—2	直離格器橡膠螺絲
2	5/9-1-3	直離格器把手
3	5/9—2	直離格器滾筒支頭螺絲
4	5/9—3	直離格器小栓把
5	5/9—4	直離格器小栓把膠膠螺絲
6	6/1—1	滾筒
7	6/5—6	滾筒軸把手

## 說明：

- ①用左手小指按下直離格器把手，使直離格輪從滾筒大齒輪，（名直離格）同時發指即可放鬆滾筒，進行裝紙等工作。
- ②需要裝紙時如直離格時，先按下直離格器把手，再將小栓把，使接合在直離格器橡膠螺絲上。不需要時，仍按把手，小栓把就會自動脫離。
- 注意：直離格器橡膠螺絲是支持離格作用的機件，不能無故脫退，否則直離格就失去作用。



(10) 裝卸紙的上端圖

## 說明：

- 裝卸紙的上端：
- ①按下微手，上壓紙尺升起，同時鋼皮板會自動彈出，定住微手，以便裝卸紙。
- ②拿紙板到尺下面接實，推過鋼皮板，微手回原，上壓紙尺也彈下回原，夾牢紙的上端。
- ③裝紙下端，旋轉滾筒，使下壓紙尺向上，再壓紙的下端。
- 注意：上壓紙尺升降得微手回原或微手向上壓紙尺升降的。為此，微手是不可以隨便加以移動，否則，上壓紙尺就不能全部升起。

號次	機件編號	機件名稱
1	6/2—1	上壓紙尺
2	6/2—3	上壓紙尺升降桿
3	6/2—4	上壓紙尺升降桿微手
4	6/2—5	上壓紙尺升降桿微手鋼螺絲
5	6/2—6	上壓紙尺升降桿微手鋼螺絲
6	6/2—7	上壓紙尺升降桿微手鋼皮板

號次	機件編號	機件名稱
1	6/1—3	右門頂定位牙齒
2	6/3-4-4	下壓紙尺定位栓
3	6/3—1	下壓紙尺環圈
4	6/3—4	下壓紙尺

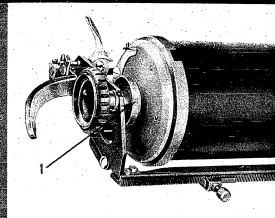
## 說明：

①裝卸紙的下端，用右手食指按住下壓紙尺左端，左手旋動環圈，使下壓紙尺從機圈的凹口中脫出，就可裝卸紙的下端。

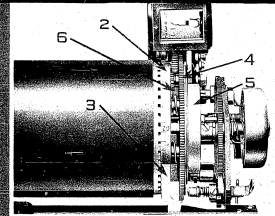
②注意下壓紙尺脫出時，應將右手按住，徐徐旋開，如圖(12)個防彈圈圖目。

③移動下壓紙尺來配合紙的長短，首先放鬆了機圈，其次參照圖(11)手法，把下壓紙尺向右推動，迫使定位栓離開定位牙齒，把紙筒放到所需地位而停止。然後使定位栓滑進到定位牙齒裏，把尺壓牢紙的下端。

(13) 移動彈盤圖



(14) 移動的距離圖



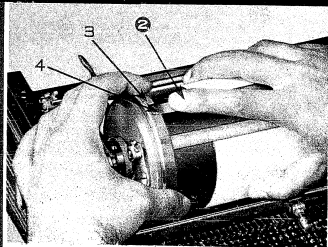
號次	機件編號	機件名稱
1	6/5—1-1	微動盤
2	6/3—2	直打刻度板
3	6/3—1	直打刻度板指針
4	6/4—1-1	滾筒大齒輪(180牙)
5	6/4—1-2	滾筒大齒輪齒板
6	6/4—7	微動彈簧

## 說明：

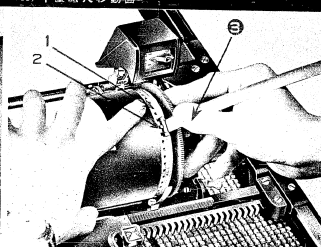
要便滾筒可左右微動，可旋轉在滾筒左側的微動盤。微動來回的限度，約為一個調字字面大小。微動到底時，不可過份擠緊，以免損壞機件。

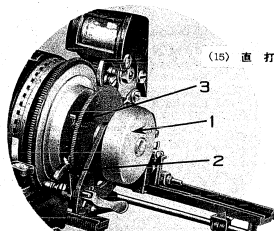
進行微動操作，儘可能使微動停留在微動範圍的中部，以便隨時可向左右作微動。橫打微動後，須注意裝便復原，不然會使各行參差不齊。

(12) 裝卸紙的下端圖



(11) 下壓紙尺移動圖



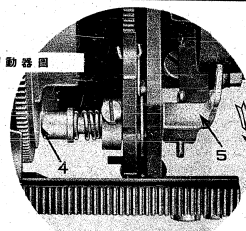


(15) 直打定位圖

號次	機件編號	機件名稱
1	5/8—6	銷
2	5/7—1	直打定位撐牙
3	5/7—5	直打定位齒輪
4	5/8—1-1	直打銷器橡皮
5	5/8—2	橫打銷器
6	5/8—3	打銷彈簧
7	4/2—5	橫打銷定位桿
8	4/2—10	橫打銷移動定位器
9	4/2—13	定位器移動彈簧

號次	機件編號	機件名稱
1	5/10—3	直打倒順扳手
2	5/9—5	直打倒順桿
3	5/9—6	直打倒順桿移動套筒
4	5/6—2	直打制動器橡皮
5	5/6—4	直打制動器扳手

(18) 直打制動器圖

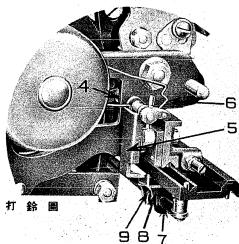
**說明：**

直打定位：旋轉滾筒到所要打字的位置後，順滾筒到不能再轉為止。或者從開定位撐牙，同時旋轉滾筒到所要打字的位置，扳手使撐牙咬合，也可定位。

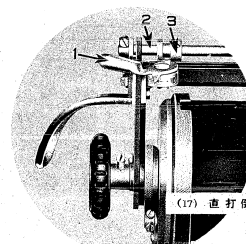
斷絕定位：換行時，只要逆轉滾筒到不能再轉，各行就可平齊一致。

直打打鉛：直打鉛是隨下壓紙尺移動而變更，在一行將要到底前，發出鉛聲，當手勿再繼續打字。

橫打鉛係由活動定位器及橫打鉛器而響。活動定位器係由橫打鉛的位差率加以移動。方法用手指向上推壓移動彈簧，即可左右移動。



(16) 直打打鉛圖



(17) 直打倒順扳手圖

**說明：**

直打倒順扳手在「順」字時，可使上而下的翻打，按在「倒」字時，自下而上的翻打，如現在倒翻之間，就既不能順打，也不能倒打。須把它扳平，直打才能正常。

利用直打制動器彈簧滾筒放大齒輪，同時再定住了直打格板（見圖2說明）可使滾筒停在任何一點上，以便進行劃線或打字在橫的格線中間等工作。使用方法，前面18圖所示方向推動制動器的扳手，橡皮便頂滾筒大齒輪，發生制止滾筒轉動作用。回復扳手，橡皮就脫離，作用也失效。

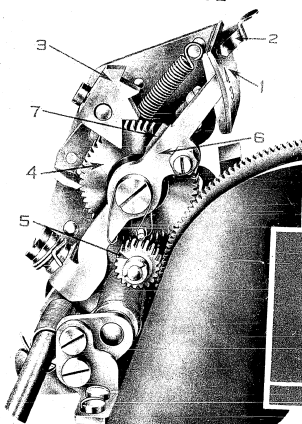
(20) 直格卸除罩壳圖

## 說明:

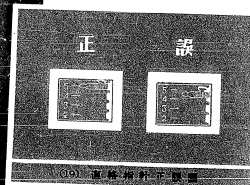
①直格分格有2345四種，要定直打字間和橫打行間的格數，可將直格推針來確定。那時請勿過份向右扳，也不可將推針停留在兩數之間，見圖(19)。否則，直格就要走格不準，甚至不走格。

②直格加油，必先卸去罩壳螺絲，卸下罩壳。在各軸螺絲和齒輪部分，加少量機油。裝上罩壳時，必須注意罩壳在分格面板上的位置，要不妨礙機體的動作。

③直格分格就是直格走格數的指示，如果有了變動，總制架即爪彈簧時，就不能夠恰巧插入所需要的字牙，走格就要發生障礙。



號次	機件編號	機件名稱
1	7/2-1-2	直格分格面板
2	7/4-1	直格推針
3	7/4-3	直格分格鐵
4	7/5-1	直格55牙齒輪
5	7/5-7	直格20牙齒輪
6	7/7-1	直格走格控制架
7	7/7-4	直格走格控制架副爪



(21) 橫格和橫打定位器圖

## 說明:

①橫格分格有2345四種，可從分格盤來確定。如圖示分格盤的位置是定橫打三格字間，也就是直打三格行間。

②橫打定格可從橫打左右指針，指向左，向左橫打，指向右，向右橫打。橫打不足，橫格不走格。

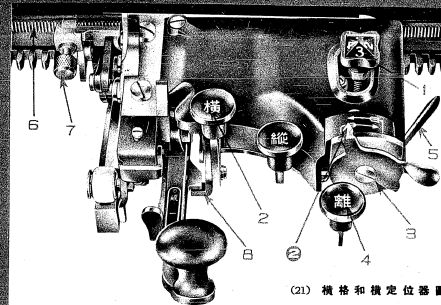
③移動橫格，按下橫格彈簧(老款機格)使橫格齒輪咬合百齒牙，即可移動橫格。進行如下調整及重新裝設等動作。需要定住橫格時，先置橫格，再扳小格把向前，使它合在彈簧齒輪上，就可移動橫格。不需時，仍扳回原位，小格把就會自動復原。

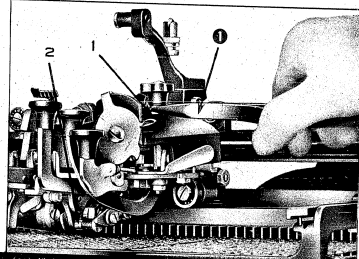
④橫打分格可從橫格盤，按一下，空一個字間距離。

橫打機件，要從橫格盤，定行間距離，參照圖(13)說明。

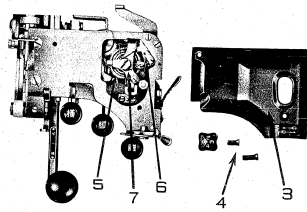
⑤橫打定位，從總橫打定位器螺絲，裝到百齒牙齒上實際所需的位置，旋緊螺絲，使橫格盤和機身接觸的位置固定起來，橫打每行起首便得一致。

號次	機件編號	機件名稱
1	8/7-1	橫格分格盤
2	8/11-1	橫格盤
3	8/14-1	橫打左右指針
4	8/15-1	離盤
5	8/15-4	離盤小格把
6	5/2-1	百齒牙齒輪
7	附屬機件	橫打定位器
8	8/12-1	橫格推動板





(22) 橫格罩先裝卸圖

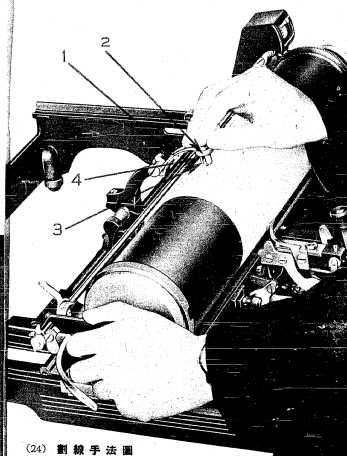


(23) 橫格卸除罩圖

號次	機件編號	機件名稱
1	8/7-2	橫格分格鈕螺絲帽
2	8/13-7	橫格小開刀轉輪
3	8/1-1	橫格罩壳
4	8/1-2	橫格罩壳螺絲
5	8/5-1	橫格第二58牙齒輪
6	8/8-1	橫格撐牙
7	8/9-1	橫格走格控制架

## 說明:

- 橫格罩壳卸法 ①先將起卸分格鈕下面的螺絲帽。  
 ②旋下分格鈕。  
 ③旋掉轉輪，使打左右指針可以抵到罩壳的右外側。  
 ④旋出二只罩壳螺絲，拿下罩壳。  
 橫格罩壳裝法 ⑤將罩壳蓋上去，旋緊螺絲時，要注意左短右長。  
 ⑥把分格鈕裝上，其位置必須和旋下時相符合，然後把螺絲帽向上和分格鈕對齊。  
 ⑦最後扳回打左右指針恢復原狀。  
 注意：橫格器中慎勿塞入橡皮和紙帶等，以免妨礙齒輪運轉。



(24) 劃線手法圖

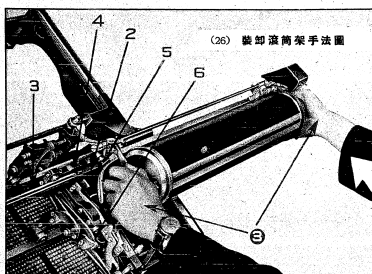
## 說明:

- ①劃線之前，應將墨盒上緊，裝進到劃線器轉輪上的空腔內，見圖24。該紙上劃線時不需用的。  
 ②劃線時，先將轉輪旋成90度直向，再定住直線格器。照圖示方式，左手扶轉輪，右手按下劃線器轉輪，即可劃直線。  
 劃線時轉輪旋90度成橫，定住橫格轉輪，再以左手移動橫向，右手給下轉輪劃橫線。  
 按壓轉輪的輕重，以能劃出線面而不破紙為度。並須注意紙張平直型貼和轉輪的接觸。  
 ③劃雙線，劃線器轉輪是與心的（車邊）不論劃橫直雙線，只要將轉輪旋轉180度來再劃一次，便成雙線。

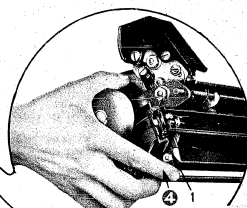


(25) 劃雙線圖

號次	機件編號	機件名稱
1	9/0-3	劃線桿
2	9/0-7-1	劃線器轉輪座
3	9/0-7-2	劃線器轉輪
4	9/0-9	劃線墨條



(26) 裝卸彈筒架手法圖



(27) 鉤起直打托桿手法圖

**說明：**

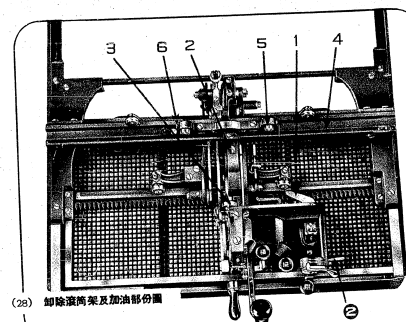
裝卸彈筒架的步驟：

- ①把彈子箱前圖 20 放在兩面三角槽軌的右邊。
- ②定住橫格鎖。
- ③雙手握彈筒架，放在靠近滾筒架後軌偏心彈子盤的右邊，見圖 26，必須要把上下兩端三角槽平行對正，而後邊放在彈子箱上。這時要注意彈子箱切勿使歪斜。
- ④照圖 27 手法，右手鉤起直打托桿，才可開始把滾筒架平直地從右向左推進過去；推到底來回一二次，使彈子箱不偏在一邊，推進到機身中部時要注意：前進的百鈎牙齒輪要搭着滾筒架彈子盤上；後邊的偏心彈子盤進入滾筒架後軌。

號次	機件編號	機件名稱
1	5/5-1	直打托桿
2	4/2-3	兩面三角槽軌彈子盤
3	4/2-1	兩面三角槽軌
4	4/3-1	滾筒架後軌偏心彈子盤
5	4/3-3	滾筒架後軌偏心彈子盤
6	4/1-3	滾筒架彈子盤

兩面三角槽軌  
機身托架彈子盤  
滾筒架彈子盤  
大開刀軸及螺絲  
頂針大套筒  
盤手桿中軸

號次	機件編號	機件名稱
1	8/16-1	橫打防止滑牙鈎
2	4/1-2-1	直打托桿螺絲
3	4/1-3	滾筒架彈子盤
4	4/2-3	兩面三角槽軌彈子盤
5	4/3-3	滾筒架後軌偏心彈子盤
6	4/3-4	滾筒架後軌偏心彈子盤支頭螺絲



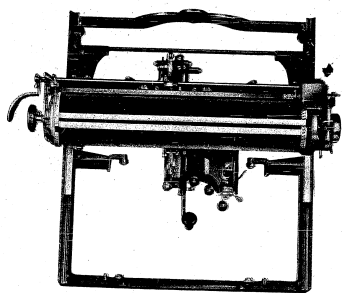
(28) 卸除滾筒架及加油部份圖

**說明：**

卸除滾筒架的步驟：

- ①裝有橫定位器時，必先卸下。
- ②固定住橫格鎖。
- ③照圖 27 手法，用右手手指鉤起直打托桿。
- ④雙手托持滾筒架平直地向右推出。這時要預防彈子箱扭的彈子落掉。加油說明見下頁。





(29) 卸除字盤加油圖

**說明：****加油注意事項：**

- ①在加油之前，宜先用刷子清除墨垢，膠木和電鍍部份用乾布擦淨。
- ②細的彈簧和橡皮小輪轉輪彈簧等，如果加上結成大約的油，反而會使彈性減弱。
- ③卡字桿和字盤方孔不可加油，僅手桿後軸處需加油，前者要助緩鋼字上落，後者打字時要轉動紙張。
- ④總油應選擇質純的，不致失去潤滑作用，反使原件腐蝕。

直格各部份  
橫格各部份  
機架轉輪及軸  
撤手桿後軸  
撤手桿鉤頭及墨球架軸  
滾筒軸兩端  
滾筒架後軸及各彈子盤  
直離格把手部份

## 使用說明

**打字手法** 打字手法可分為：橫打、底兩種動作：

1. 橫打動作分上下兩半。上半橫打包括鋼字上升，字面離開油池，字身四口被卡字得卡住三點；下半橫打包括鋼字壓起，打字紙上。上半橫打用力較輕，等到卡字後，動作要穩，穩步前進。一經熟練，取供一次上半橫打，以求達到快捷目的。

正確，橫打用力與擊作下半橫打。上下兩半橫打的輕重快慢是不同的，為了養成這種手法的習慣，開始學習時可作兩次上半橫打，動作要穩，穩步前進。

2. 底打動作，在鋼字打上升後，要順勢放開撤手桿，使字盤落下，鋼字落入字盤。同時還須注意：一、放開撤手桿時，要避開機身震動；二、字盤落下時，切勿移動字盤，以免落字，尤其在橫打時。

有些撤手桿得較短的打字機，可以在撤手桿後加一個長柄這樣撤手桿的長度打字用力就可減輕，但太長的柄也要影響機體結構打機造成損傷鋼字的。

**裝卸紙張** 裝卸紙張時應注意：1. 裝紙的位置可把尺上的尺碼為依據。2. 紙的上下端必須對齊。3. 紙要平齊緊貼地桌上。

滾筒。4. 下張紙尺要緊在紙的末端。5. 卸紙時要注意沾污紙面。

**校正字位和定位** 紙已裝妥後需要校正字位，使字盤卡字用手把把紙近紙面，以測鋼字是否打在需要的位置。校正辦法：可讓撤手桿放於撤手桿，既經校正，就可參照圖15、21來進行校正。

**機直定向** 首先要把文件打透是橫打。要橫打，再要決定橫打或者橫打。凡以紙下端距離為準的，各項下端須平齊的文件，都可採用橫打。定橫打，則可使字盤定向光或向右。然後把橫打鉤頭定位器移到需要的位置。後會計科目、表格、花邊等，則可採用側面或左右兩端打法，以求增進準確。

**文件設計** 打字前，先要把文件計劃一下，究竟應橫打幾行，每頁打幾行，每行應打多少字。這得考慮標題怎樣安排？對紙的上下左右要佔多少地位，以及字行起點定位在那裏等等設計，都是必要的。這樣不僅在工作上能對準確，而且可使文件打得更美觀和合式。

**字盤畫字** 字盤字依使用分爲特用、常用、通用，通用字裝在通用字盒裏的。兩者都附有字表，採用部首排列法編排，便於查字。如果使用單位把某機上應用的和互相關係的字或詞彙，集中地連串地排列在一起，來改編成一套字表，這是一種先進工作方法，可以提昇書字速度。

從一九五五年六月份起，上海各打字機廠已能統一改用新的基本字表，分字盤字一盤和通用字一二兩盒，共5850字，比過去舊的字表增多了1346字。這一點對普通用戶可能有些不便，但如參考新美的文字集刊，不難熟悉的。

**表格打法** 打表格，先劃線，後打字，比較容易有把握。但在劃線時，對格子的尺寸，應以要打的字數為依據，可隨字打出格外。

**複寫打法** 打複寫的方法，以字的筆劃和複寫份數的多少分別輕重。但要注意：1.複寫紙要從下面墊到上面墊齊。位置才得上下一致。2.打有格線紙多份時，需了紙全張的關係，要防止下面幾張打格線。3.打錯修改，只要切紙下端，取出全部紙張後，從底下一張換起。4.凡文件需用份數須複寫二次以上的，不如打一次複寫紙來印，在人力、物力和時間上較為節約。

**膠紙打法** 打膠紙與普通打法一樣，一般在膠紙下墊張厚紙，打法稍重，使字跡劃打透，印出字跡一定清楚。不過打點點符號等容易割穿膠紙，勿宜過重。

字句偶或打錯，可用修正液塗改重打，或再打一份用粘補方式以膠紙膠水接補上去。

要印大量文件，估計一張紙不能勝任時，可用兩張紙一次打成，但須用力較重。

紙張油印方法和一般油印相同，但紙張品質的優劣有別印出成績，要特別注意。

#### 保養說明

1.保管 保管打字機，最好搬到專機專用，由使用者自己保管，比較妥當。沒有相當維修知識和經驗，請勿隨便拆動。祇有先從了解機件結構和參考有關書籍入手，對保全工作才有幫助。

2.掃除 機體方面：經常在外露的零件或機木部份，用乾布擦拭，電鍍部份可用油布揩擦，以免氧化生銹。內部不易擦到部份，用長毛刷清除塵埃。為此，在使用時對於紙屑、碎屑、橡皮碎屑等須隨時注意勿落入機件。關於轉軸和字體方框等容易積污的地方，尤須注意清潔。在不使用時，最好加蓋防護。

滾筒方面：滾筒橡膠的性質，在冬季質地較硬，到了夏季則稍軟，但經久自然會老化變硬，並能為機體節油、潤滑等優點。

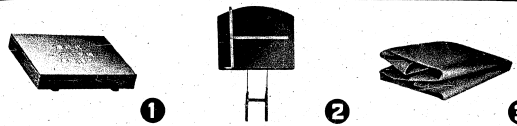
如有積污，祇宜用細布擦淨。

鋼字方面：在使用或打錯後，須用硬毛刷擦刷，清除塵屑。如用洗字水洗滌，最為相宜。

鋼字不宜放於陽光直射或日光曬到的地方，更不應置於潮濕的地方。因為這樣處容易使鋼字變質。

3.注油 注油的目的，在使機件潤滑靈活，可是應慎。所以凡機件連接的活動關節和受壓磨的地方都要加油。機中黃銅點，即為需加油的地方。加油的份量過多或太少，都不相宜，以滿足潤滑為適度。

打字機潤滑用的機油，須油質純潔而不易揮發，不含雜質及酸性為合用。



#### 附屬品說明

號次	品名	數量	用途說明
1	備用字	2	分第一第二兩盒，各附1710枚鋼字。
2	原稿台	1	裝在機體後面，放置稿件。夏天用以壓稿，指示字行。
3	機車	1	單履機器，防止塵埃。
4	換膠脚	4	換裝機脚，各長兩面。
5	墨球筆	6	備為替換應用。
6	墨油	1	墨球筆上色之用。
7	油盤	1	盛機油和注油用。
8	機油	1	防止生銹潤滑機件。
9	字盤	1	指取鋼字用的。
10	毛刷	1	用以掃除塵污，清潔機件。
11	索引	1	專供查字用的。
12	說明書	1	學習打字參考資料。

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

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Cable Address: "INSTRIMP"

CANTON: 25 Tai Ping Road, S.

Cable Address: "INSTRIMP"

STAT

鐵鉗

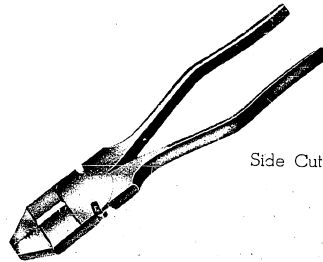
TRADE MARK



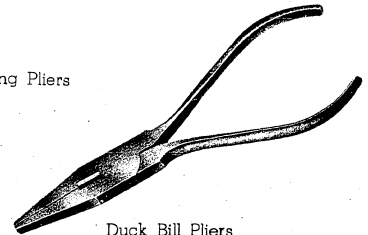
**DIAMOND  
PLIERS**

CHINA NATIONAL SUNDRIES EXPORT CORPORATION

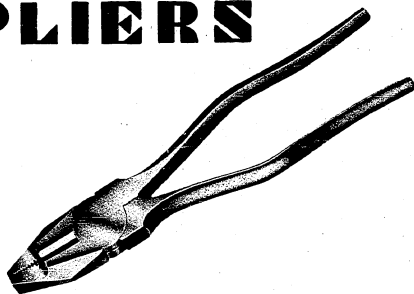
# DIAMOND PLIERS



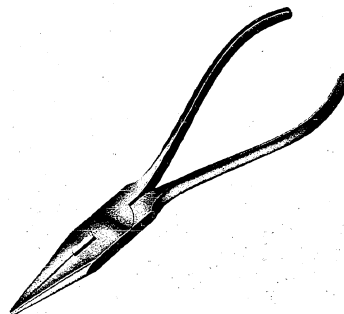
Side Cutting Pliers



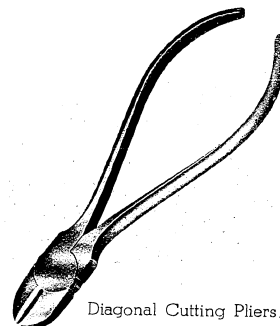
Duck Bill Pliers



Cable Pliers



Long Nose Pliers



Diagonal Cutting Pliers

Please note the specifications etc. described on the back of this leaflet.

☆ 金  
鋼  
牌 ☆

## Particulars about Specification, Packing &amp; Measurement

Art. No.	Name	Specifi- cation	Content per case	Gross weight (kg.)	Measurements of case
TA2/0013	Duck Bill Pliers	6"	8 doz.	21	21 1/2" x 8 1/2" x 8 1/2"
TA2/0017	Side Cutting Pliers	6"	8 doz.	27	19" x 9 1/2" x 9"
TA2/0018	Side Cutting Pliers	7"	8 doz.	35 1/2	19 1/2" x 9 1/2" x 11"
TA2/0019	Side Cutting Pliers	8"	8 doz.	47 1/2	22 1/2" x 10 1/2" x 11"
TA2/0022	Cable Pliers	6"	8 doz.	27	19" x 9 1/2" x 9"
TA2/0023	Cable Pliers	7"	8 doz.	35 1/2	19 1/2" x 9 1/2" x 11"
TA2/0024	Cable Pliers	8"	8 doz.	47 1/2	22 1/2" x 10 1/2" x 11"
TA2/0028	Long Nose Pliers	6"	8 doz.	19	21 1/2" x 8 1/2" x 8 1/2"
TA2/0033	Diagonal Cutting Pliers	6"	8 doz.	21	21 1/2" x 8 1/2" x 8 1/2"

中國雜品出口公司

CHINA NATIONAL SUNDRIES EXPORT CORPORATION

Head Office: 32 (A) Chiu Tiao Hutong, East City, Peking, China

Cable Address: "SUNDRY" Peking

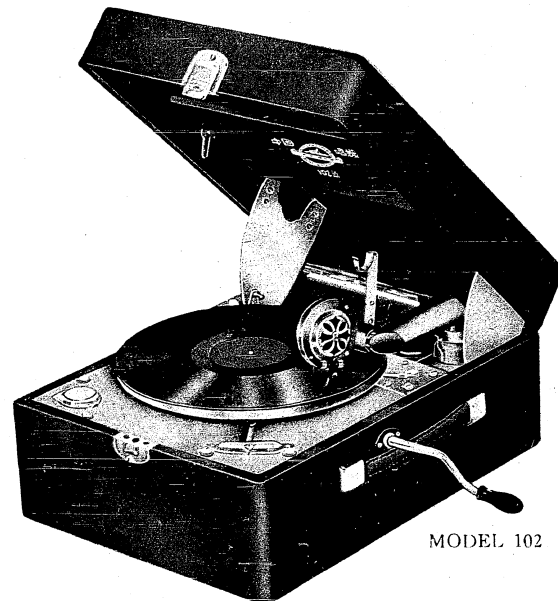
Shanghai Branch: 27 Chung Shan Road E1, Shanghai, China

Cable Address: "SUNDRY" Shanghai

中國 唱機



Gramophone



MODEL 102

中國雜品出口公司

CHINA NATIONAL SUNDRIES EXPORT CORPORATION

### AN INSTRUMENT THAT PROVIDES A LIVELY ENVIRONMENT AND GAIETY.

To all appearance gramophone is a nice and portable instrument. At times when we are out on picnics, holidays, or after work, it is desirable to take it along with you for playing some of the records after your fancy, which will give the pleasure of relaxation and enjoyment of your cultural life.

Chinese Gramophone No. 102 is made of high quality. They are equipped with double spring motor, aluminum soundbox, brass armtone, sound-guarding board and automatic brake. All the external bright parts are chromed, shiny and dazzling to the eye. The case is surfaced by linoleum, capable of playing records of diameters of 25 and 30 cm., with a speed of 78 revolutions per minute. It revolves perfectly well without any distortion of sound. Each winding can play continuously for 8 minutes. The entire case measures 41.7 x 30 x 18 cm., and weighs 7.5 kgs. Gramophone is packed in a corrugated cardboard box and every two to six pieces packed in a wooden case.

Chinese Gramophone No. 103 is the same as No. 102 with the exception of the following 3 items, it has no sound guarding board, no automatic brake and weighs 7 kgs.

#### PACKING

Pieces	Measurements of case (cm)	Net Weight (kg)	Gross Weight (kg)
2	51 x 47 x 38	15	25
3	77 x 55 x 43	23	37
4	92 x 52 x 44	30	46
5	112 x 54 x 43	38	59
6	75 x 55 x 76	45	70

Catalogue will be supplied upon request.

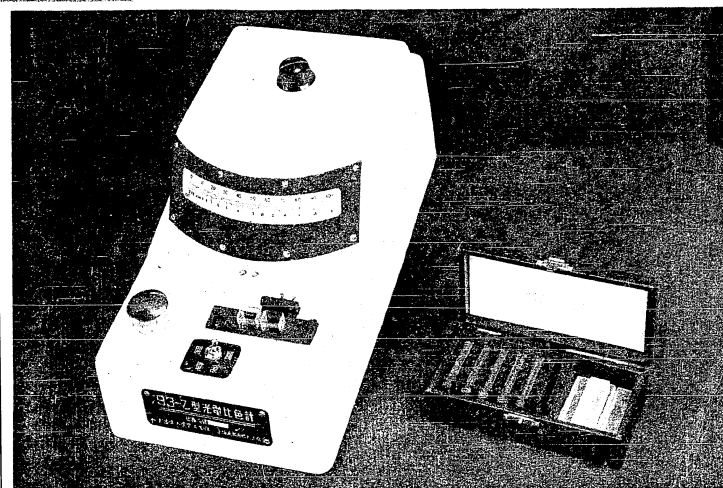
### CHINA NATIONAL SUNDRIES EXPORT CORPORATION

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## PHOTOELECTRIC COLORIMETER

MODEL 93B



中國儀器進口公司

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION  
(IMPORTERS & EXPORTERS)


### PHOTO ELECTRIC COLORIMETER MODEL 93B

The Photo Electric Colorimeter Model 93B embodies the most recent improvements in design for efficiency, compactness and economy. This instrument is extremely simple to use and is easily standardized by reading the transmittancies of a number of solution of predetermined concentrations prepared in accordance with a specific chemical procedure. These readings, when plotted on a semilogarithmic scale against the known concentration on a linear scale, yield an analytical (calibration) curve or standard against which the unknown solutions of that technique may be compared.

This instrument is designed to work either from a 6 volt battery or direct from a 220-250 volt a. c. mains supply through a constant voltage transformer. The light passes through an absorption cell with an optical path of 10 mm., which holds the solution under test. Through the selected filter the transmitted light reaches the photocell, the output current of which is indicated on the galvanometer.

The galvanometer is calibrated with a linear scale 0-100 underneath which is a logarithmic scale for calculation of optical density. A set of six filters is supplied.

STAT



*Battery Operated Radio Receiver*

中國儀器進口公司  
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION  
(IMPORTERS & EXPORTERS)



### 2-VALVE BATTERY OPERATED RADIO-RECEIVER

#### Specifications :

1. Valves: 1S5 Regenerative Detector  
3S4 Audio amp.
2. Frequency Range:  
550-1600 Kc.
3. Battery Used:  
"A" battery : 1.5V  
"B" battery : operating on 45V, 67.5V  
or 90V.

#### Features :

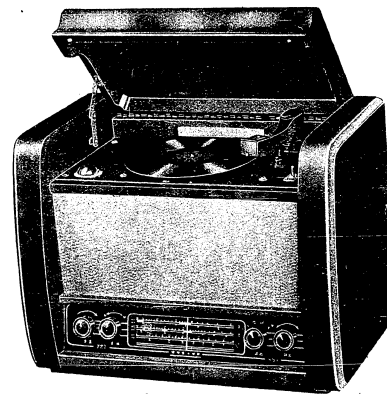
Economical in consumption of battery, High Sensitivity, Easy Tuning, Excellent Appearance and Strong Volume.

These receivers are most useful for villages, suburbs or other places where no electrical power supply is available.

1. 品名：乾電池雙管收音機(不附帶電池)。
2. 規格：再生式檢波一極低週波放大，甲電1.5伏，乙電45伏。
3. 說明：在無電地區，如農村曠野使用非常方便，收程遠能聽550至1600千週波，省電，靈敏度高，調節便利，電壓67.5V故用45V或90V乾電池均可，收聽機內燈管為(1S5)及(3S4)各1只，外表美觀聲音充沛。

"FRIENDSHIP" BRAND

*RADIO-PHONOGRAPH COMBINATION*



*MODEL 722-551*

中國儀器進口公司

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

(IMPORTERS & EXPORTERS)

**RADIO-PHONOGRAPH COMBINATION "FRIENDSHIP" BRAND****MODEL 722-551**

This radio-phonograph combination is of the most recent design. The radio receiver is a deluxe superheterodyne 7-tube, 3 wave band set. It is extremely selective and sensitive. The high fidelity crystal pickup reproduces a fine true tune and has no frequency discrimination. The use of miniature tubes, iron core I. F. transformer, and R. F. coil ensures its highest quality, double amplification and perfect performance. The speed of the phono-motor is 78 rpm., suitable for playing all standard records up to 12".

**TUBES AND NUMBERS:-** One-6BE6; Two-6BA6; One-6AL5; One-6AQ5; One-1629 (magic eye); One-5Y3 GT/G; and Two-6.3V bulbs for dial illumination.

**WAVE BANDS:-**

Short wave - 1 (Red) 39.5-79.0 metres (7.6-3.8 M. C.)  
 Short wave - 2 (White) 24.8-33.3 " (12.1-9.0 M. C.)  
 Medium wave (Yellow) 188-545 " (1600 - 550 K. C.)  
 Phonograph

**INTERMEDIATE FREQUENCY:-** 465 K. C.

**SENSITIVITY:-** 1. Medium wave not less than 200 microvolts. Short wave not less than 300 microvolts. Pickup output not less than 0.15 volts.

2. Wattage output: Minimum 1.5 watts.  
 Maximum 4 watts.

**SPEAKER:-** 6 watts, 200 mm. dia. P. M. speaker.

Binding post is provided on back of receiver for extra speaker of 4 ohms.

**AUTOMATIC VOLUME CONTROL:-** As output variation does not exceed 8 d. b. to input variation of 26 d. b., an equal signal strength on all incoming stations can be obtained at the same volume level.

**POWER SOURCE:-** 110/220 volts, AC, 50/60 cycles.  
 Provided with special voltage socket.  
 Power consumption - 50 watts.

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

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MODEL 56-1 RECORD PLAYER

中國儀器進口公司

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

(IMPORTERS & EXPORTERS)

## MODEL 56-1 RECORD PLAYER

When and where record entertainment is required, this smartly built Record Player is ideal to meet the demand. Its super sensitive magnetic pickup ( $2500 \pm 5\%$  ohms) reproduces the full tone-quality of 10" or 12" records. The pickup arm, with a counter weight located at the base end, reduces the pressure of the needle, thus minimizing wear and tear of the record. An idler, rotating perpendicularly to the turntable and providing adjustable speed within a range of 70-90 R.P.M., is motivated by a single phase motor, which operates on either 110 V. or 220 V., 50 cycles.

Dimension:  $35 \times 22 \times 16$  cm.

56—1 型電唱機

56—1 型電唱機是一架輕巧靈便，美觀大方，適宜家庭與收音機配合使用的電唱機，唱盤旋轉平穩，可調節轉速每分鐘自70—90轉，單相交流馬達，經久耐用，永磁動圈式唱頭靈敏度很高，不受潮濕的影響，10吋12吋標準唱片均可使用，電源110伏或220伏50週秒。

# AUTOMATIC RECORD CHANGER

## MODEL "54"



中國儀器進口公司  
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION  
(IMPORTERS & EXPORTERS)

MODEL "54"  
AUTOMATIC RECORD CHANGER

This record changer is a combination of superior mechanism and fine craftsmanship, guaranteed to give years of excellent service. It changes twelve 10" or ten 12" records at one loading. Sturdy built 4-pole motor, operating on either 110 V. or 220 V., 50 cycles, assures long operating life. Rim drive provides smooth constant speed. Simple to operate with combination on-off and rejection switch. Light weight magnetic pickup protects records from overpressure.

Complete with handsome varnished wooden cabinet, 5 ft. of power source cord as well as 5 ft. of single conductor shielded wire for plugging into radio or amplifier.

Dimension: 48 x 40 x 28 cm.  
Net Weight: 10 kgs.

"54" 型自动落片式電唱機

"54" 型自动落片式電唱機構造精密，靈巧輕便，適用於擴音機或收音機配合使用。它每次可以連續自動調換十吋唱片十二張或十二吋唱片十張，內部主要包含一具堅固耐用的四極馬達，適用於 110 V. 或 220 V. 電壓，單相交流 50 週/秒。轉盤速度平均，旋轉平穩，轉矩強大，並附有啓停以及對不喜歡聽的唱片先期調落的開關機換，使用便易，磁性唱頭體質很輕，使唱片不致於因重負而易磨損。

電唱機外部係一精美噴漆的木箱，裝有電源輸入線和連接擴音機或收音機的音週輸出線各一根，均長五呎。

尺寸: 48 x 40 x 28 公分  
淨重: 10 公斤

**CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION**

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# TERRESTRIAL GLOBE

地球儀



中國儀器進口公司

CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

(IMPORTERS & EXPORTERS)

### TERRESTRIAL GLOBE

Radius vernier type, with wooden stand reinforced by metallic supports. The surface of the globe was printed in technical colors, important cities and communication lines of the world are prominently demonstrated. Best suitable for schools, offices and families.

With various sizes of 25 cm., 30 cm. and 35 cm.

### 地 球 儀

國產半徑標尺式地球儀，具有金屬及木盤座架，球面五彩印刷，着重顯示世界交通綫及各國主要城市，最適宜學校教學，辦公室及家庭應用，備有25公分，30公分及35公分三種產品，歡迎向我公司批購或向當地經銷書局選購。

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## ZIN-E-TONE Adjustable Hearing Aid



中國儀器進口公司  
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION  
(IMPORTERS & EXPORTERS)

**ZIN-E-TONE**  
Adjustable Hearing Aid  
Operation and Maintenance Instructions

Often times a pair of Hearing Aid Apparatus will have a defect of unequal volume of sound to each ear receiver due to the fact that the gap between the magnet and diaphragm is not evenly affixed in proper position. Our ZIN-E-TONE will prevent such defect as having the following features resulting from latest improvements.

1. **ADJUSTABLE SOUND VOLUME** In doing this it is simply to take down from the headband the ear receiver that requires adjustment and loose the adjusting ring or coil (figure B). Then hold that back of the ear receiver with the right hand (figure C) close to your ear and turn the cover of the ear receiver very slowly with the left hand (figure A) in such a way until a pure-tone is reached and keep it in position by tightening the adjustment. In the course of turning caution must be taken, for a quick turn will often damage the diaphragm nor should the turn be too tight, as it will bend the diaphragm being pressed heavily on the magnet, and in no event should the adjustment be loosened again after it has been fixed to avoid any reduction in sound volume. In case the other ear receiver needs adjustment too, the procedure can be repeated as above stated.

2. **THE GREATER THE STRENGTH OF THE MAGNET THE LOUDER WILL BE THE TONE** The magnet is made of Aluminum and nickel alloy steel which will give a great magnetic strength, maximum volume of sound, and a long life. The loss of magnetic flux is very little under heavy shock.

3. **FREE ADJUSTMENT** The best feature of our ZIN-E-TONE is the free adjustment of the gap between magnet and diaphragm in giving the volume of sound to its highest point and ensuring a better sensitivity of receptions from any radio receiver even the smallest crystal detector set.

**MAINTAINANCE**

1. Careful examination and proper adjustment have been ascertained to every piece of our ZIN-E-TONE before leaving factory. It is not advisable to turn the cover of the ear receiver before using, otherwise readjustment would be necessary and improper adjusting might damage the delicate part of the ear receiver sometimes, such as the breakdown of the diaphragm.

2. The handsome outside case of our ZIN-E-TONE is made of moulding bakelite, therefore care must be taken in handling without letting it fall to the ground nor hit it to a hard substance less the bakelite case should be broken and the intensity of sound be gradually diminished.

3. Do not hang the ZIN-E-TONE on wall nor keep it in damp places, otherwise the interior part of the ear receiver will be rusted causing a lower tone, or mould will appear on the moistened coil resulting the break of wire or rather a complete collapse of the apparatus.

4. In using the apparatus, do not twist the cord or else the copper conductor will be broken easily or to cause a "CRACK" sound unpleasant to hearing.

5. In using the apparatus, never take off the cover of the ear receiver nor remove out the diaphragm of its position, because the diaphragm plays always an important part of the whole apparatus in respect of sound intensity, which will be weakened if the diaphragm is not in its flatness. The apparatus should be also put down as gently as possible after using.



CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION

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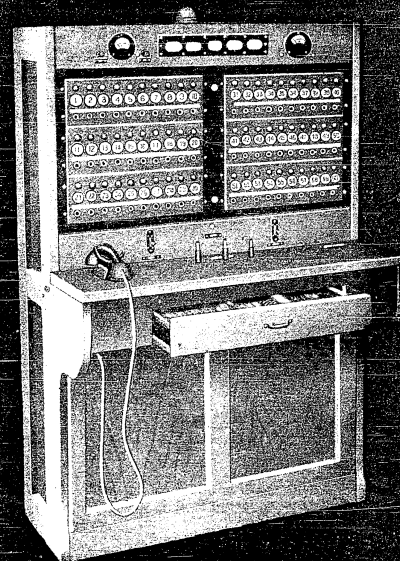
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# TLO-60

## ALARM RECEIVING BOARD RADIATION TYPE



中國儀器進口公司  
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION  
(IMPORTERS & EXPORTERS)

### TLO-16,30,60 ALARM RECEIVING BOARD, RADIATION TYPE

#### Application:

The alarm receiving board is to be used in the radiating type alarm receiving system for the purpose of receiving fire alarm and burglar alarm signals. TLO-16 type is used at small-sized stations, TLO-30 type, at medium-sized stations and TLO-60 type, at large-sized stations.

#### Description:

The TLO alarm receiving board, is a new product of China, made up to the recognized international standard. Within the capacity of the receiving board, any number of alarming signals may be received. Not more than three alarm-sending apparatus may be connected in each circuit.

When alarms are being received, visible and audible signals appear on the board to indicate the number of the particular alarming circuit. Besides, alarm sirens or bells may be installed at any necessary location.

Officially secret-coded signals delivered from the alarm sending apparatus may be received at the board. Answering signals may be sent back to the originating apparatus and telephone communication established.

D.C. milliammeter and voltmeter are mounted on the receiving board to check the line current and battery voltage.

If any trouble happens on the line, e.g. disconnection, short-circuiting and grounding, an alarming signal will appear to show the nature of the trouble and the number of the line in question.

#### Technical Data:

##### Capacity of the alarm receiving boards:

16 circuits of alarm sending apparatus may be installed with TLO-16 type board.  
30 circuits of alarm sending apparatus may be installed with TLO-30 type board.  
60 circuits of alarm sending apparatus may be installed with TLO-60 type board.

##### Power Supply:

Two sets of storage battery are necessary for the receiving board, one for the line and the other for the local circuit of the board. The battery voltage for TLO-16 or TLO-30 type board is 24V, and that for TLO-60 type board is 48 volts.

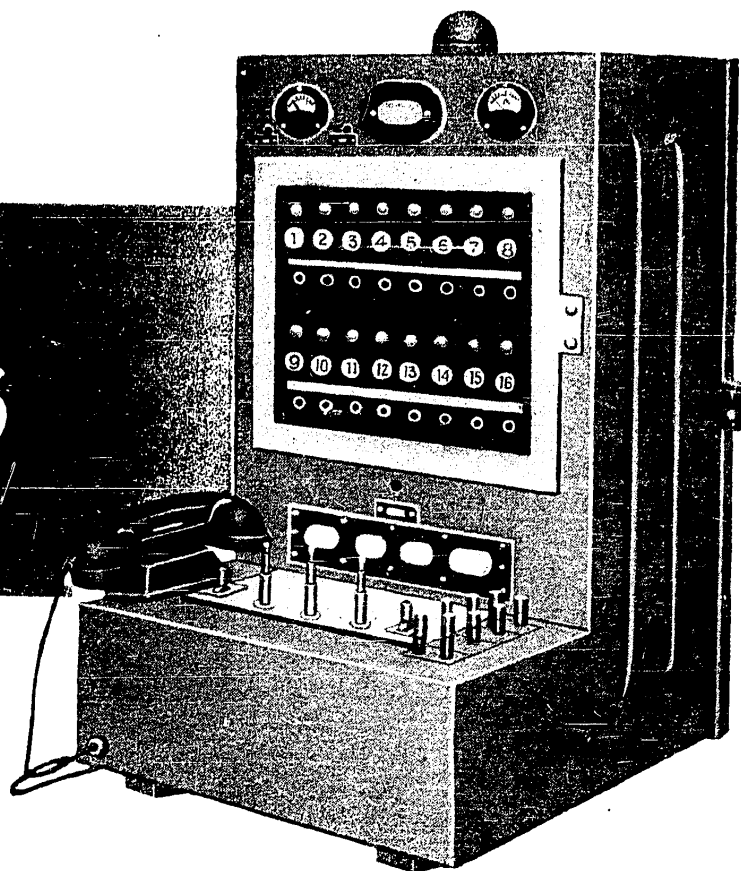
##### Allowable Line Resistance:

The line resistance (including protecting equipment) of each circuit for TLO-16 and TLO-30 type boards is 300 ohms maximum, and that for TLO-60 type board is 1000 ohms maximum.

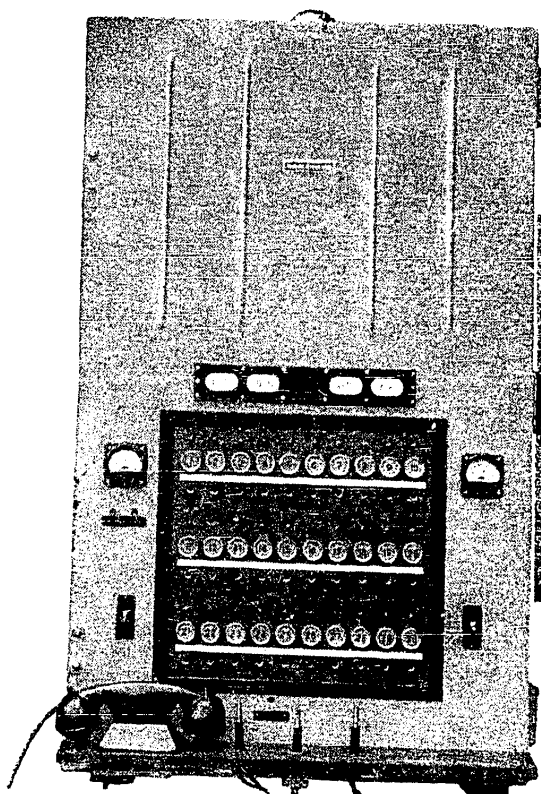
##### Dimensions:

	TLO-16	TLO-30	TLO-60
Width	482 mm	740 mm	932 mm
Depth	455 "	235 "	550 "
Height	725 "	1740 "	1380 "
Weight:	56 kgs.	92 kgs.	166 kgs.

**TLO-16**



**TLO-30**



# 中國運輸機械進口公司

## 橡膠混合機

## RUBBER MIXING MILL

This machine is sturdily built and is designed for rolling or compounding crude, compounded or reclaimed rubber. It has two parallel steam heated hollow rollers, revolving at varied speeds and are equipped with temperature regulating devices in their interiors. The driving system comprises of electric motor, speed reducing gearing, gears, and clutch. Rollers are made of chilled iron so as to ensure against radial pressure and wear. The space between rollers is adjustable by means of set screw.

Treating capacity	...	...	...	...	...	30 to 40 kgs. per hour
Size of Rollers: Diameter	...	...	...	...	...	355 mm. (14")
Length	...	...	...	...	...	915 mm. (36")
Speed: Main roller	...	...	...	...	...	16 rpm.
Auxiliary roller	...	...	...	...	...	12 rpm.
Driving shaft	...	...	...	...	...	75 rpm.
Ratio of speed reduction gearing	...	...	...	...	...	960:75
Motor: Type	...	...	...	...	...	Semi-enclosed type
Power	...	...	...	...	...	40 HP
Speed	...	...	...	...	...	960 rpm.
Overall dimension (L×W×H)	...	...	...	...	...	2680×1640×1060 mm.
Net Weight	...	...	...	...	...	4500 kgs. approx.

# CHINA NATIONAL TRANSPORT MACHINERY IMPORT CORPORATION

## IMPORTERS & EXPORTERS

ER-LI-KOU, HSI-CHAO, PEKING, CHINA

CABLE ADD: TRANSMACH PEKING

### 整圓輪胎翻制機

## FULL CIRCLE TYRE RETREADING MACHINE, Model TR

This equipment retreads all commercial tyre sizes. Old tyres are retreaded by vulcanizing new rubber on to the tread sole which has been previously roughened.

**Mould :** The top half mould is stationary and supported by the frame. The lower half mould, being hinged to the top half, can be closed by an air cylinder which is operated by air of 12 atm. (180 lbs. per sq. in.) to be furnished by a separate air compressor. Both mould halves are jacketed and heated by means of steam of about 4.4 atm. (65 lbs. per sq. in.)

**Matrix :** The equipment is furnished with one piece of interchangeable aluminum tyre matrix which is available in different tread designs according to customer's requirement.

The moulds are made in five types each of which is suitable for certain range of sizes of matrices according to following table. Each machine is furnished with one matrix, the size of which is to be stated on order. With each matrix a spacer ring is delivered. The spacer ring enables adjustment of possible difference of tyre sizes.

**Vulcanizing Process :** When vulcanizing, the mould halves should be securely closed by means of the tightened bolts. The lateral heating of the mould and the high pressure applied to the tyre permit perfect tyre retreading or relining whether from bead to bead or from shoulder to shoulder. Air bags are to be placed inside the tyres when vulcanizing. These air bags have to be adopted to the various tyre sizes and are not supplied with the equipment. Aluminum moulds used for making air bags can be supplied at extra cost.

Normally it takes about  $1\frac{1}{2}$  to 2 hours to retread each tyre. Boiler and air compressor plant can be quoted upon request.

Mould No.	Tyre Size Handled	Weight (kg) Net Gross	Shipping Space	Remarks
TR 1	650×16	749 882	86.5×99.0×124.5 cm	Same retreading process can be applied to size 600×16 by changing matrix to suit the size.
TR 2	750×20	933 1165	89.0×124.5×147.0 cm	Same applied to sizes 650×20, 700×20 by changing matrices to suit the sizes.
TR 3	1000×20	1716 1906	91.0×141.0×166.0 cm	Same applied to sizes 825×20, 900×20 by changing matrices to suit the sizes.
TR 4	1200×20	2400 2645	91.4×143.0×176.0 cm	Same applied to sizes 1050×20 1100×20 by changing matrices to suit the sizes.
TR 5	1200×22	2453 2821	91.4×147.0×180.0 cm	

Each machine is supplied with wrench, 1 steam pressure gauge, 1 thermometer. Extra matrix spacers available at additional cost.

# CHINA NATIONAL TRANSPORT MACHINERY IMPORT CORPORATION

## IMPORTERS & EXPORTERS

ER-LI-KOU, HSI-CHAO, PEKING, CHINA

CABLE ADD: TRANSMACH PEKING

### 揸 鈕 機

## STUD MAKING MACHINES

Name of machine	Spindle speed rpm	Stroke mm	H.P. required	R.P.M.	Overall dimension mm	Weight Kg.	Output per min.
(A) 1	150	29 × 39	2½	960	1220 × 1070 × 2160	1725	750 pcs.
(A) 2	140	39 × 39	½	960	530 × 310 × 770	130	280 pcs.
(B) 1	150	29	2½	960	1220 × 1070 × 2160	1700	750 pcs.
(B) 2	150	10 × 30	2	960	990 × 690 × 1710	1400	750 pcs.
(B) 3					390 × 2.0 × 410	17	18 pcs.
(C)	150		½	960	950 × 690 × 970	310	600 pcs.
(D)	500		7½			250	

All power driven machines are coupled to the motor by Vee belt.

The name of machine is listed and explained as follow":

### NAME OF MACHINE

#### (A) For Head part of Stud

1. Punch Press for cutting copper or zinc alloy strips into pieces and at the same time bead and sewing holes are formed and edge is turned downward.
2. Press for folding the edge of the stud.

#### (B) For Spring part of Stud

1. Press for making bead and sewing holes on strips.
2. Punch Press for cutting strips into pieces and at the same time edge is turned upward.
3. Hand driven Press for folding the edge of the Stud and at the same time wire spring is inserted.

#### (C) Wire Spring Making Machine

- #### (D) Vertical Air Compressor for the supply of compressed air to each machine to blast scraps from the dies.

STAT

# ***TYPE 101***



# ***PORTABLE KELVIN BRIDGE***

## INSTRUCTION MANUAL

Portable Kelvin Bridge is a convenient instrument for low-resistance measurement in the range of 0.0001—10 ohms, or for measuring the conductivity of wires.

The circuit diagram of the bridge is as follows:

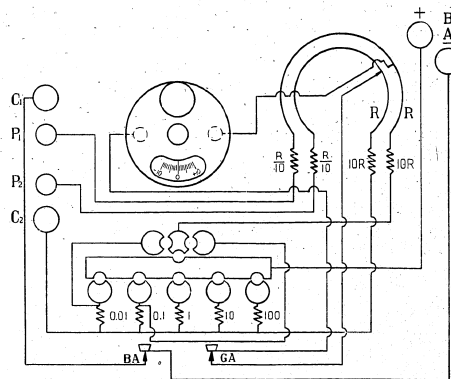


FIG 1

## CONSTRUCTION

A knob at right of the panel is used to vary the position of the galvanometer circuit in the double slide wire, and therefore the reading of the dial. The galvanometer is installed at the left of the panel, with a ratio block in the lower part of the meter.

## (1) The galvanometer

A zero adjusting cap (7 in fig. 2) is mounted on the upper part of the galvanometer. Care should be taken not to turn violently to avoid damage of the adjuster. A button (9 in fig. 2) is provided to lock the pointer of the galvanometer. To lock the pointer, push the button forward, to unlock, push backward.

## (2) Ratio Block

Two plugs are used to change the ratio of the bridge (10 and 11 in fig. 2). Plugs should be pressed firmly to ensure minimum contact resistance.

## (3) Slide Wires

The reading dial comprises two slide wires. Turning the knob of the dial will vary the position of the galvanometer in the slide wires.



## (4) Keys

Key "G" (6 in fig. 2) may be locked by pressing down and turn clockwise.  
Key "B" (5 in fig. 2) cannot be locked.

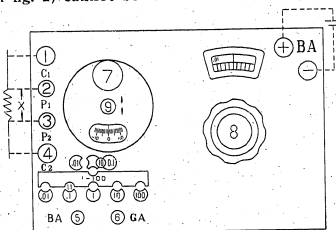


FIG 2

- (5) Weight of the instrument approx. 3.4 kg.  
Dimension shown as follows:

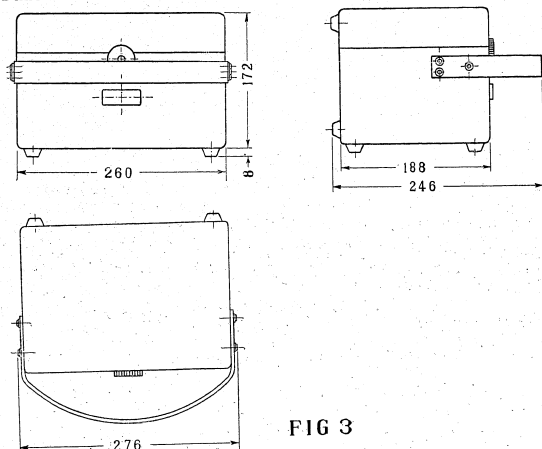


FIG 3

## OPERATION

- (1) Resistance lower than one ohm must have four terminals, connect as shown in fig. 2. Posts No. 1 and No. 4 are current terminals, and posts No. 2 and No. 3 are potential terminals. For resistance higher than one ohm, posts No. 1 No. 2, and No. 3 No. 4 may be tied up with a short bus wire respectively, and resistance to be measured is connected to posts No. 2 and No. 3.
- (2) Connect battery to posts "B+" and "B-". Use three 1.5v dry cell (connect in parallel), or one 2v 60Ah storage battery. When measuring low resistance, better use 4v storage battery. Key "B" (5) should not be pressed too long to avoid excessive power consumption.
- (3) Press down key 6 to close the galvanometer circuit. To lock the key, press down and turn clockwise.
- (4) Release the galvanometer lock 9, and turn the zero adjuster 7 until the pointer indicates in the zero position. Set the plugs in the corresponding holes as follows:

Measuring Range	Position of Plug 10	Position of Plug 11
1—10 $\Omega$	1—100	100
0.1—1 $\Omega$	1—100	10
0.01—0.1 $\Omega$	1—100	1
0.001—0.01 $\Omega$	0.1	0.1
0.0001—0.001 $\Omega$	0.01	0.01

- (5) Press down key 5, and balance the bridge by turning the dial 8. The dial reading multiplied by the value indicated at plug 11 will be the result of the unknown resistance.

## EXAMPLE

The dial reading 0.025

The plug in the 0.1 position

$\therefore R_x = 0.025 \times 0.1 = 0.0025 \text{ ohm}$

- (6) The null indicator of the bridge is a sensitive suspension type galvanometer avoid excessive vibration. Push forward the button 9 to lock the pointer when not in use.

- (7) To measure the conductivity of copper wire, use following formula:

$$\text{Conductivity} = R_t / R_x \times 100\%$$

$R_x$  = Resistance of copper wire to be measured at  $t^\circ\text{C}$

$R_t$  = Resistance of standard copper wire of same diameter at  $t^\circ\text{C}$

$R_t$  may be calculated as follows:

$$R_t = R_{20} [1 + 0.003 (t - 20)]$$

where  $R_{20}$  is the resistance of standard copper wire of same diameter at  $20^\circ\text{C}$ .

- (8) The instrument should be kept in dry place, and should avoid any harmful atmosphere.

**CHINA NATIONAL TRANSPORT MACHINERY IMPORT CORPORATION****IMPORTERS & EXPORTERS**

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ER-LI-KOU, HSI-CHAO, PEKING, CHINA

CABLE ADD: TRANSMACH PEKING

**鋼筆刻名机****ENGRAVING INSTRUMENT***Working Instructions:-*

1. Signature specimen ... Place specimen of signature underneath glass plate (1) and tighten screw.
2. Clamp button ... Press button (2).
3. Clamp ... Insert pen and have it held firm by clamp (3).
4. Impression control button ... Press (4) with left hand finger and hold (5) with right hand. Release left hand finger when encountering broken strokes. When engraving on pen of soft material, moving screw button upward; when engraving on pen of hard material, screw button downward. The impression is thus regulated.
5. Tracer ... Trace along the signature in concord with the impression control button.
6. Bulb ... This is intended to improve illumination whenever necessary.
7. Wing screw ... Loosen this screw to detach the eggshape engraver.
8. Chuck ... Screw off chuck to replace needle.
9. Big screw ... { When big screw becomes loose after repeated use, loosen it first: tighten horizontal
10. Horizontal screw ... { screw (10) and then tighten big screw.

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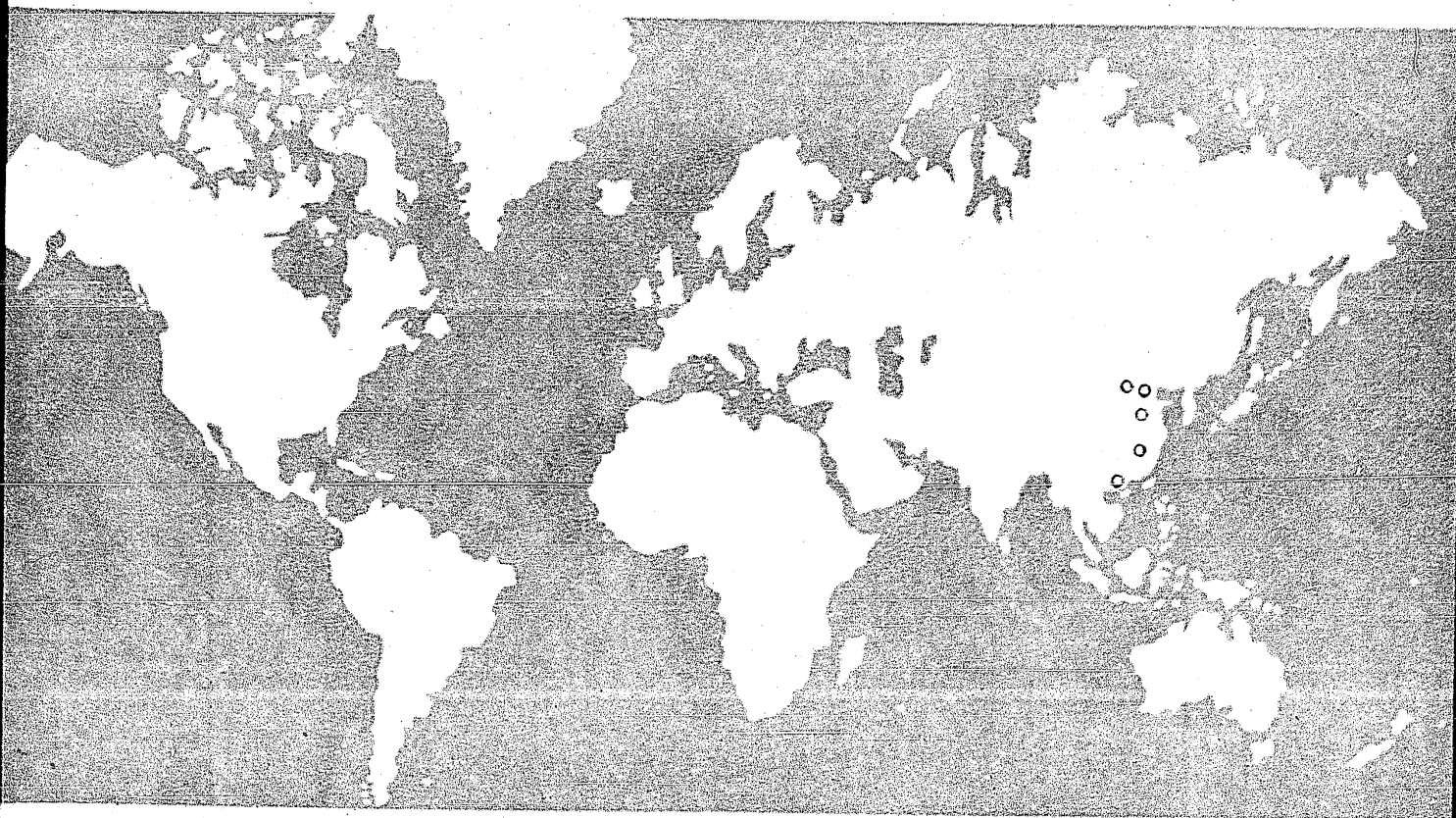
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**COAL TAR PRODUCTS**

**SODIUM SULPHIDE**

**SODIUM SULPHATE, ANHYDROUS**

**SODIUM SULPHIDE**

**Specification:**  $\text{Na}_2\text{S}$  — content 63.5% Minimum, Solid Fused or Flakes.

**Description:** Yellow or Brick-Red lumps or flakes. Soluble in water, slightly soluble in alcohol, insoluble in ether. Easily oxidizes when exposed to air.

**Uses:** Manufacture of organic chemicals; sulphur dyes; intermediates; rayon (denitrating); leather (depilatory) dyeing; paper pulp; solvent for gold in hydrometallurgy of gold ores; sulphiding oxidized lead and copper ores preparatory to flotation; flotation processes for lead and copper ores; calico printing; sheep dips; photographic reagent; engraving and lithography; analytical reagent.

**Packing:** For flakes, in iron drums of 50 kilos nett.  
For solid fused, in iron drums of 160 kilos nett.

**硫 化 碱**

**規 格:**  $\text{Na}_2\text{S}$  含量：最低63.5% (固體溶塊或片狀)

**性 狀:** 黃色或磚紅色塊或片狀，能溶於水，微溶於醇，不溶於醚。露置空氣中，極易氧化。

**用 途:** 有機化學藥品，硫化染料，中間體，人造絲用脫硫劑，製革用脫毛劑，染色，紙漿，金礦用溶劑，鉛礦銅礦浮選用硫化劑，印染，洗毛液，照相用試劑，鉛刻劑及石印，分析化學用試劑。

**包 裝:** 片狀：鐵桶裝，每桶淨重五十公斤。  
固體塊狀：鐵桶裝，每桶淨重一百六十公斤。

**SODIUM SULPHATE, ANHYDROUS**

**Specification:**  $\text{Na}_2\text{SO}_4$  content — 98% Minimum.

**Description:** Anhydrous white powder, soluble in water and glycerine.

**Uses:** Manufacture of sodium salts, sodium carbonate, washing sodas, paper pulp, ultramarine, mineral and lake colours, printing inks, soaps, turkey red oil; as drying agent; in dyeing and printing textiles; mordant in dyeing cotton; bleaching fabrics; tanning leather; diluting dyes; in medicine.

**Packing:** In gunny bags of 50 or 100 kilos nett.

**無 水 元 明 粉**

**規 格:**  $\text{Na}_2\text{SO}_4$  含量：最低98%

**性 狀:** 無水白色粉狀，能溶於水及甘油。

**用 途:** 製造鈉鹽，碳酸鈉，洗濯用碱，紙漿，靛青等染料，印刷油墨，肥皂，土耳其紅油，乾燥劑，染色製革，醫藥，染料沖淡劑。

**包 裝:** 麻袋裝，每袋淨重五十或一百公斤。

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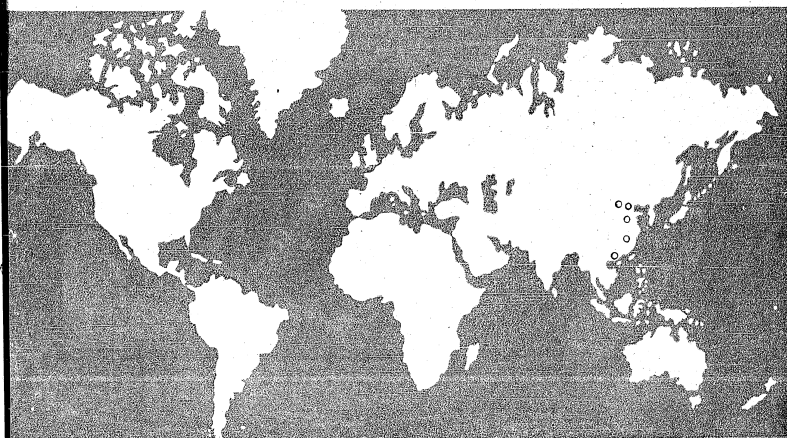
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COAL TAR PRODUCTS

CHROMIC ACID

PHOSPHORIC ACID

**CHROMIC ACID**  
(CHROMIC ANHYDRIDE, CHROMIUM TRIOXIDE)

**Specification:**  $\text{CrO}_3$  content — 98% Minimum.

**Description:** Reddish brown crystal, soluble in water and ether.

**Uses:** For manufacturing chromates, chrome dyestuffs, electric batteries, coloured glass, printing and lithographic inks; as mordant in dyeing and printing textiles.

**Packing:** In steel drums of 200 kilos nett.

**铬 酸**

**規格:**  $\text{CrO}_3$  含量最低 98%

**性質:** 紅棕色結晶，能溶於水及醚。

**用途:** 製造各類鉻化學品，媒介染料，電池，色玻璃，印刷及石印油墨，織物媒染劑。

**包裝:** 鐵桶裝，每桶淨重二百公斤。

**PHOSPHORIC ACID**  
(ORTHO-PHOSPHORIC ACID)

**Specification:**  $\text{H}_3\text{PO}_4$  content — 70% Minimum.

**Description:** Colourless syrup liquid. Soluble in water.

**Uses:** For manufacturing phosphates, hydrogen peroxide, glycerophosphates, pharmaceuticals, dyes, incandescent light filaments, pyrotechnics, fertilizers; essences, soft drinks and mineral waters; pickling and rustproofing agent; sugar defecant and clarifier; mordant in dyeing and printing textiles; brightener of silks.

**Packing:** In glass jar of 30 kilos nett covered with wooden case.

**磷 酸**

**規格:** 含  $\text{H}_3\text{PO}_4$  最低 70%

**性質:** 無色糖漿狀液體，能溶於水。

**用途:** 製造磷酸類化學品，過氧化氫，甘油磷酸，醫藥，染料，電燈泡燈絲，烟火，肥料，香水，硬水軟化劑，礦水，酸漬及防銹劑，並用於製糖作澄清用，紡織品印花之定色及亮光增強劑。

**包裝:** 玻璃罐裝，每罐淨重三十公斤，外加木箱。

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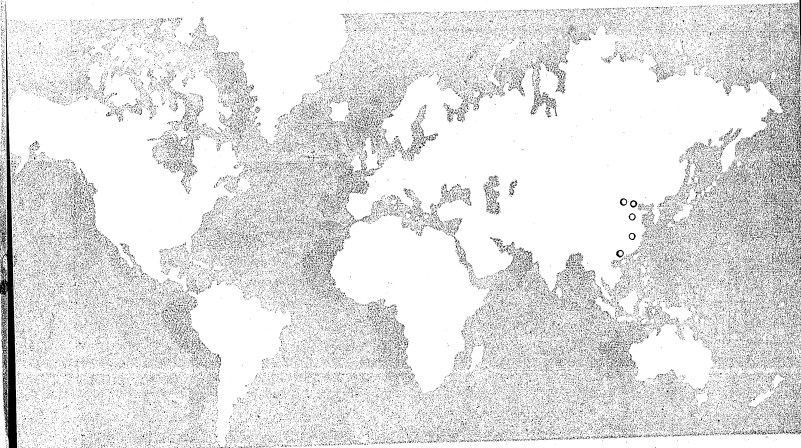
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**CARBOLIC ACID (PHENOL)**

**CRESYLIC ACID**

**CARBOLIC ACID (PHENOL)****Specification:**  $C_6H_5OH$  content — 98% Minimum.Freezing Point:  $39^{\circ}$ — $41^{\circ}C$ **Description:** White crystalline masses absorbing moisture from the air; distinctive odour; strong corrosive, poisonous. Soluble in alcohol, water, ether, chloroform, glycerine, carbon bisulphide, petroleum.**Uses:** Disinfectant for sanitary, medical and surgical purposes; manufacture of picric acid, salicylic acid, phenacetin and various intermediates for the production of dyes; paint and varnish removers; synthetic resins and plastics; phenates; brewing (cleansing agent); synthesis of artificial tannins; synthetic perfumes; pharmaceuticals.**Packing:** In galvanized iron drums of 210 kilos nett.**石 炭 酸 ( 酚 )**

**規 格 :**  $C_6H_5OH$  含量: 最低98%, 冰點:  $39^{\circ}$ — $41^{\circ}C$   
**性 狀 :** 白色結晶塊, 受光線作用, 即變為淡紅, 或竟為紅色, 能自空氣中吸收水分而自行液化, 味灼, 有特嗅, 腐蝕力極強, 有毒, 其稀薄水溶液微有甜味。能溶於醇, 水, 醚, 氯仿, 甘油, 二硫化碳及石油。  
**用 途 :** 製造消毒劑, 醫藥, 苦味酸, 水楊酸, 非那昔丁及各種染料中間體, 油漆除去劑, 人造樹脂及塑膠, 釀造, 炸藥, 人造鞣酸, 香料, 藥皂。  
**包 裝 :** 鍍鋅鐵桶裝, 每桶淨重二百十公斤。  
 包裝應嚴密, 須存於離食品遠處。

**CRESYLIC ACID****Specification:**  $CH_3C_6H_4OH$ Specific Gravity: 1.03-1.06 ( $20^{\circ}C$ )Distillation Test:  $0^{\circ}$ — $190^{\circ}C$  5% Maximum.  
 $190^{\circ}$ — $205^{\circ}C$  85% Minimum.**Description:** Straw to brown-red coloured liquid, phenolic odour.

Soluble in water, ammonia, glycerine, caustic soda, petroleum, alcohol.

**Uses:** Manufacture of cresols, disinfectants, sheep dips, flotation, synthetic resins; lubricating oils; in medicine.**Packing:** In iron drums of 200 kilos nett.**克 利 沙 酸**

**規 格 :**  $CH_3C_6H_4OH$   
 比 重: 1.03—1.06 ( $20^{\circ}C$ )  
 蒸餾試驗:  $0^{\circ}$ — $190^{\circ}C$  最高5%  
 $190^{\circ}$ — $205^{\circ}C$  最低85%  
**性 狀 :** 草黃至紅棕色之液體, 有酚嗅。  
 能溶於水, 阿莫尼亞, 甘油, 燒碱液, 石油, 酒精。  
**用 途 :** 製造甲苯酚, 消毒劑, 洗毛用殺寄生蟲之浸液, 合成松香, 滑潤油。  
**包 裝 :** 鐵桶裝, 每桶淨重二百公斤。

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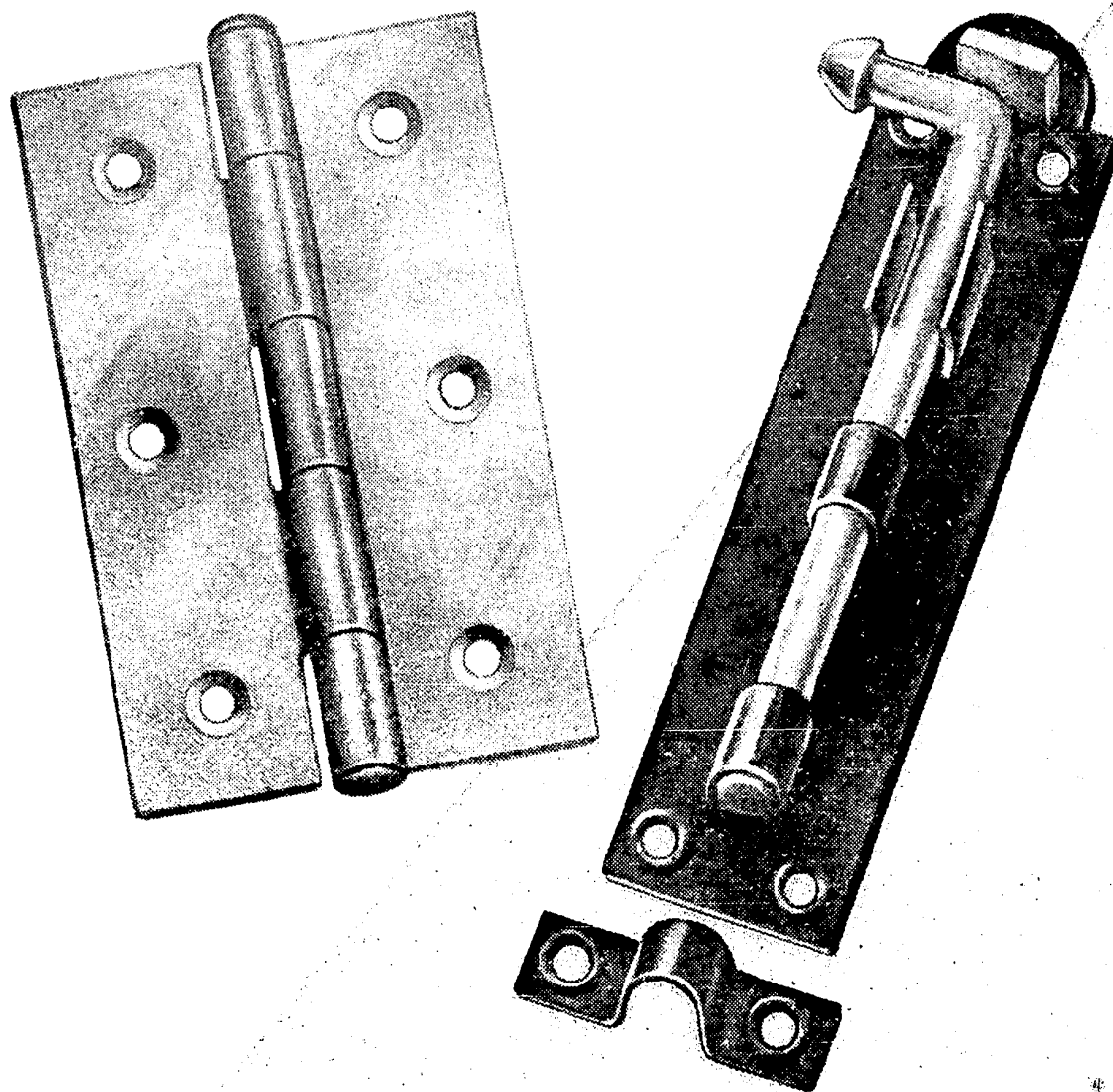
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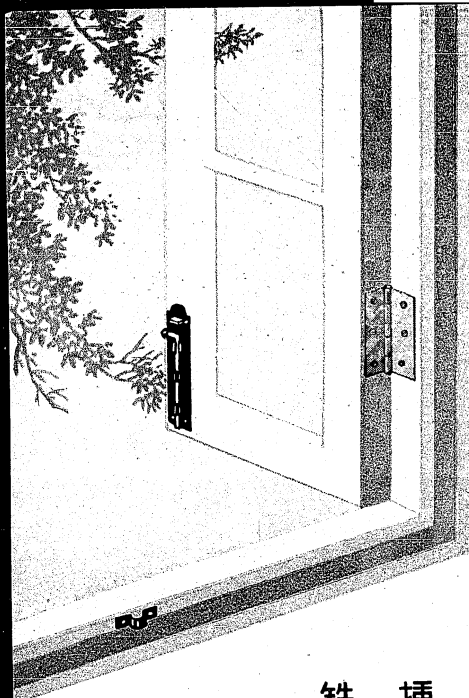
# *Iron Hinges & Tower Bolts*



CHINA NATIONAL SUNDRIES EXPORT CORPORATION



# 铁铰链·铁插肖



## 铁 插 肖

規 格	三、四、五、六、八、十、十二吋、
	黑 漆 板 磨 光 肖 挺、
包 装	三—六 吋 每打一箱 每箱一百打、
	八—十二吋 每打一箱 每箱四十打、

## IRON TOWER BOLTS

3" 4" 5" 6" 8" 10" 12"  
Specification: Black Japanned Plate  
and Polished Bolts

Packing: 3"-6" 100  
8"-12" 40 Carton x 1 Doz. Per Wooden Case.

## 铁 铰 链 IRON HINGES

規 格 Specification	單 位 Unit	包 装 Packing	
		每箱打数 Doz. Pairs per Case	重 量 (公斤) Gross Weight (Kilos)
1'	对打 Pair Doz.	200	45
1 1/2'	"	100	41
2'	"	50	39
2 1/2'	"	40	42
3'	"	30	46
3 1/2'	"	20	51
4'	"	10	42
5'	"	5	36

STAT

中国木罗丝

COUNTERSUNK HEAD  
WOOD SCREWS

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分公司：中國天津大沽中路114號。電報掛號“SUNDRY”天津

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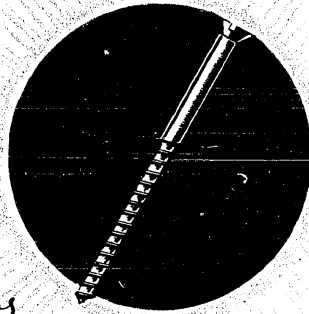
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Countersunk  
Wood Screws*



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Straight Body

Sharp Gimlet Point

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鐵平頭木羅絲

#### 規格 SPECIFICATIONS

#### 包裝 PACKINGS

$\frac{3}{8}$ "	2-3	1 GROSS	10 GROSS	1000 GROSS
$\frac{1}{2}$ "	3-6	1 "	10 "	500 "
$\frac{5}{8}$ "	4-8	1 "	10 "	500 "
$\frac{3}{4}$ "	4-6	1 "	10 "	400 "
$\frac{3}{4}$ "	7-8	1 "	10 "	300 "
$\frac{7}{8}$ "	4-8	1 "	10 "	300 "
1"	5-9	1 "	5 "	200 "
1"	10-12	1 "	5 "	100 "
1 $\frac{1}{4}$ "	6-8	1 "	5 "	200 "
1 $\frac{1}{4}$ "	9-12	1 "	5 "	100 "
1 $\frac{1}{2}$ "	6-12	1 "		100 "
1 $\frac{3}{4}$ "	8-12	1 "		100 "
2"	6-8	1 "		100 "
2"	9-12	1 "		50 "
2 $\frac{1}{2}$ "	8-12	1 "		50 "
3"	10-14	1 "		40 "

中國鐵釘  
*Nails*  
( IRON WIRE NAILS )

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分公司：中國天津大沽中路 114 號。

電報掛號 "SUNDRY" 北京  
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CHINA NATIONAL SUNDRIES EXPORT CORP.

# 鐵 釘

係以中國自產盤條用電氣化機器  
所精製具有下列各項優點：——

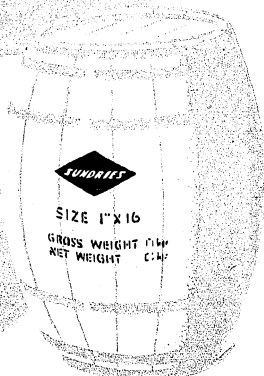
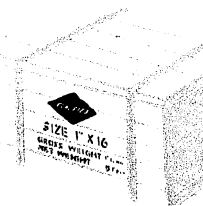
COMMON ROUND NAILS are made of Iron Rods of Chinese origin by power-driven automatic machineries and possess the following features:



釘帽 圓而正 方花精細  
*Head* : COUNTERSUNK CHECK-  
ERED HEAD

釘身 直而光  
*Body* : STRAIGHT & BRIGHT

釘尖 銳而光 尖點準確  
*Point* : DIAMOND POINTS



# 鐵 釘

## IRON WIRE NAILS

尺 寸 INCHES	號 治 号 BWG.	包 裝 PACKING	
		每桶淨重 PER KEG NET WEIGHT 25 斤 (KILOS)	每箱淨重 PER CASE NET WEIGHT 25 斤 (KILOS)
1/2" X 19	60	60	21 1/2
5/8" X 18	60	60	21 1/2
3/4" X 17	60	60	21 1/2
1" X 16	60	60	21 1/2
1-1/4" X 15	60	60	21 1/2
1-1/2" X 14	60	60	21 1/2
1-3/4" X 13	60	60	21 1/2
2" X 12	60	60	21 1/2
2-1/2" X 11	60	60	21 1/2
3" X 10	60	60	21 1/2
3-1/2" X 9	60	60	21 1/2
4" X 8	60	60	21 1/2
4-1/2" X 7	60	60	21 1/2
5" X 6	60	60	21 1/2
6" X 5	60	60	21 1/2

尺寸繁多不及備載  
OTHER SIZES UPON APPLICATION



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**GALVANIZED IRON**  
*Wire*

中國鑄鐵絲

# 規格 SPECIFICATIONS

我們的 **鐵絲**

已大量行銷各地博得世界各地市場  
之好評 價廉物美 質地柔韌

BWG NO.	直徑	DIAMETER	1 色澤光亮
	耗 $\frac{M}{M}$	公差 TOLERANCE	2 鍍鋅均勻
8	4.191	$\pm 0.08$	3 扭力強大
10	3.404	$\pm 0.06$	4 抗銹力強
12	2.765	$\pm 0.06$	歡迎採購一定可獲得貴客之滿意
14	2.108	$\pm 0.05$	
16	1.951	$\pm 0.05$	
18	1.745	$\pm 0.04$	
20	0.885	$\pm 0.03$	
22	0.711	$\pm 0.02$	
24	0.559	$\pm 0.02$	

## GALVANIZED IRON WIRE

WINS VERY HIGH REPUTATION WHERE-  
EVER IT GOES

FINE QUALITY AT REASONABLE PRICE

BRIGHT & EVEN ZINC-COATING

STRONG TORSION FORCE

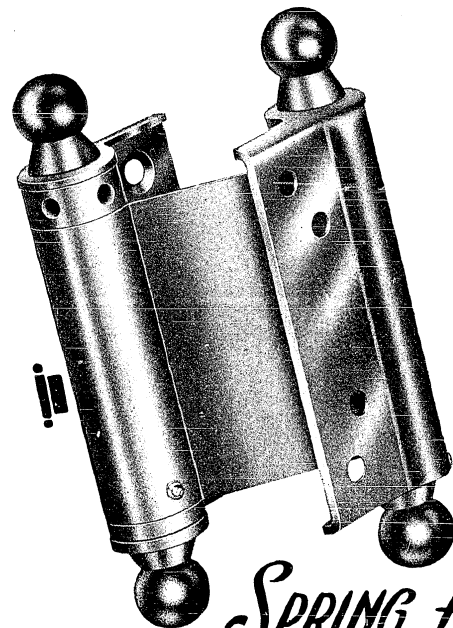
STANDARD TENSILE STRENGTH

STURDY RUST-RESISTING POWER

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ARE CORDIALLY INVITED ANY  
TRANSACTION WILL PROVE  
AN ENTIRE SATISFACTION  
TO YOU.

STAT

双弹簧铰链  
**HERO** BRAND



*SPRING HINGES*  
**DOUBLE ACTION**  
FOR RIGHT OR LEFT HAND DOORS

MADE IN CHINA

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BRANCH OFFICE: 14 TAIKU ROAD, CHIENTSIN, CHINA. CABLE ADDRESS: SUNDRIES, CHIENTSIN.

**中國雜品出口公司**

總公司：中國北京東直門外大街112號 電話掛號：SUNDRIES 北京  
分公司：中國天津大沽中街114號 電話掛號：SUNDRIES 天津



## HERO BRAND

### SPRING HINGES DOUBLE ACTION

The "Spring Hinges, Double Action," used for right and left hand doors, are made of fine quality and highly practicable for general use. They will give satisfaction to you after application of them.

Each pair provided with screws.

#### PACKING

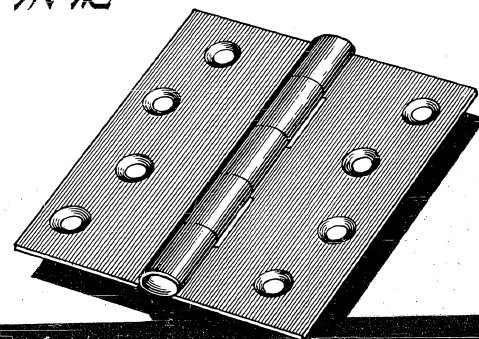
Specification	Contents per case	Measurement (unit: cm)			Weight per case (unit: Kg)	
		L	W	H	Gross	Net
3"	50 prs	48	31	31	56	47
4"	50,,	50	36	33	75	66
5"	40,,	54	42	30	87	77
6"	25,,	53	27	37	76	67
7"	20,,	57	32	45	111	100
8"	10,,	53	35	36	86	76
10"	10,,	56	41	34	115	103

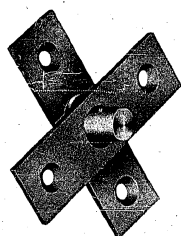
中國製造  
MADE IN CHINA

# IRON Butts

鐵鉸鏈

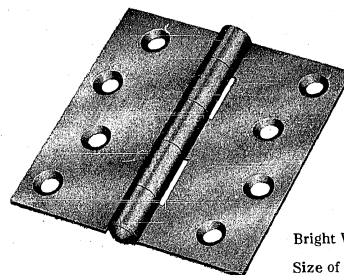
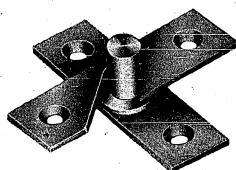
(HINGES)





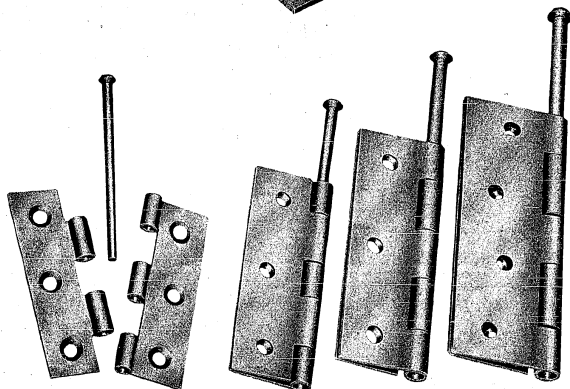
Sash Pivots

Length	2"	2½"	3"	3½"	4"
Width	¾"	¾"	¾"	¾"	¾"
Size of Screw No.	6	6	7	7	7
No. of Screw Holes	4	4	4	4	4



Bright Wrought Iron Square Butts: 3" square 4" square

Size of Screw No.	9	12
No. of Screw Holes	6	8

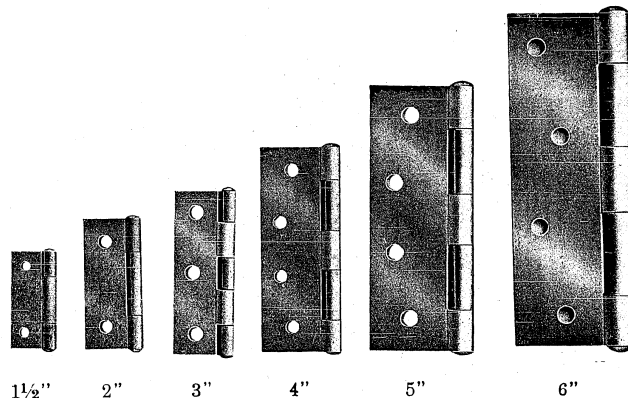


Bright Wrought Iron Narrow Butts with Loose Pin

Length	2½"	3"	3½"	4"
Width	42mm	50mm	55mm	73mm
No. of Screw Holes	6	6	6	8
Size of Screw No.	6	7	8	9

Bright Wrought Iron Heavy Narrow Butts with Fast Pin

Length	1½"	2"	2½"	3"	3½"	4"	5"	6"
Width	32mm	40mm	42mm	50mm	55mm	73mm	83mm	103mm
No. of Screw Holes	4	4	6	6	6	8	8	8
Size of Screw No.	5	6	6	7	8	9	10	10



## HEAVY NARROW BUTTS

SPECIFICATION	CONTENTS PER CASE	UNIT	MEASUREMENTS OF CASE (CM.)			WEIGHT OF CASE (KG.)	
			LENGTH	WIDTH	HEIGHT	GROSS	NET
2"	100	dozen	56	30	21	68	62
2½"	75	"	60	25	22	82	76
3"	50	"	49	30	25	88	82
3½"	30	"	49	27	28	75	68
4"	20	"	51	27	23	75	70

## SASH PIVOTS

2"	500	pairs	63	27	27	55	50
2½"	500	"	58	34	27	66	60
3"	500	"	55	25	35	80	73
3½"	500	"	57	27	35	91	83
4"	500	"	68	29	35	105	95

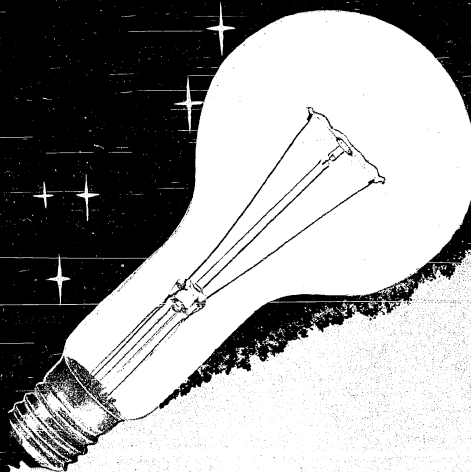
## SQUARE BUTTS

3"	20	dozen	62	31	18	69	64
4"	10	"	55	24	28	72	67

## NARROW BUTTS

2½"	75	dozen	60	28	22	82½	76½
3"	50	"	49	30½	25	88	82
3½"	30	"	49	27	28	75	68
4"	20	"	51	27	23	75	70

N. B. The length of the wood screw required depends upon the thickness of the wood on which the above butts are to be screwed. The butts are supplied without screws.



# WHA TEH

STAT

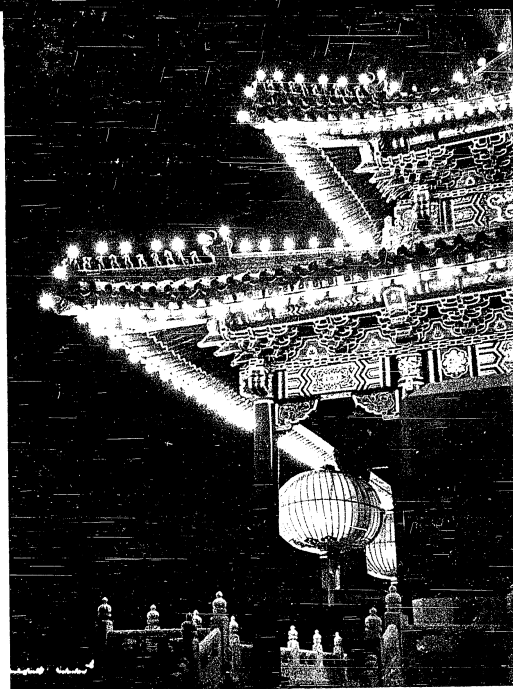
# WHA TEH LAMPS (Electric bulbs).

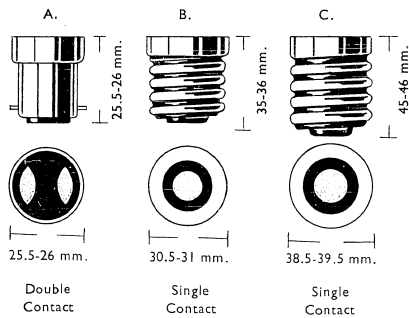
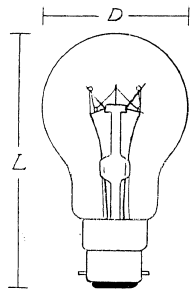
The "Wha Teh" Electric Bulbs undergo rigid inspection during the process of manufacture. The filament is uniform in length and even in tension with high illuminating power and low current consumption as their special features. The average life of a "Wha Teh" bulb is 1,000 hours at the rated voltage.

## STANDARD VOLTAGE: 110V or 220V

Watts	Vacuum or Gas-filled	Lumens Approx.		Average Life Hours	Dimension (mm)		P A C K I N G								
							Pcs. to a carton	Cartons and Pcs. to a wooden case		Measurements of wooden case			Volume of wooden case (cu. ft)	Weight (kg)	
		220V	110V		L.	Diam.		Cartons	Pcs.	L.	W.	H.		Gross	Net
15	V.	100	115	1,000	96	54	25	20	500	28"	28"	25"	11.35	44	23
25	V.	180	210	1,000	106	57	25	20	500	28"	28"	25"	11.35	44	23
40	V.	290	360	1,000	113	.60	25	20	500	28"	28"	25"	11.35	44	23
60	G.	540	595	1,000	121	64	25	20	500	29"	29"	27"	13.15	49	26
75	G.	712	787	1,000	128	70	25	8	200	32"	25"	17"	7.88	29	13
100	G.	1,000	1,250	1,000	141	75	25	8	200	33"	26"	18"	8.94	31	14
200	G.	2,560	2,900	1,000	183	91	25	4	100	33"	21"	21"	8.43	28	11
500	G.	7,500	8,200	1,000	275	127	12		50	35"	24"	24"	11.67	34	14

BULBS OF 150 AND 300 WATTS ARE ALSO AVAILABLE.

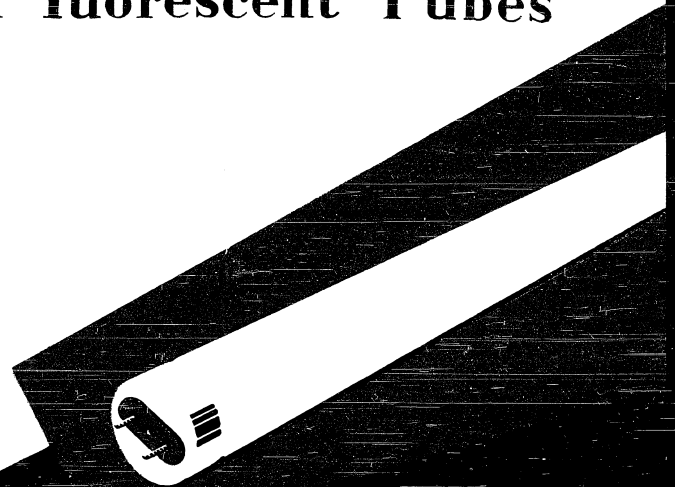




中國雜品出口公司  
CHINA NATIONAL SUNDRIES EXPORT CORPORATION

A. For bulbs below 200 watts.  
B. For bulbs of 200 & 300 watts.  
C. For bulbs of 400 & 500 watts.  
All sizes within the range of 15-300 watts can be fitted with either bayonet or screw caps if required.

# Electrician Fluorescent Tubes



## FLUORESCENT TUBE

Of the same kind of light, fluorescent tube provides a light cozier and mellow than ordinary lamps it is no doubt that it serves to-day as a favourite means of lighting.

The "Electrician" Fluorescent Tube is valued for its high efficiency and agreeable luminous effect, it gives you a cozy and cheerful atmosphere in low current consumption. So it is widely in demand in all places where an elaborate illumination is required.

### TECHNICAL DATA OF "ELECTRICIAN" TUBE

Con- sumption (watt)	Length (mm)	Diameter (mm)	Current (amp)	Voltage (volt)	Optimum Voltage (volt)	Colour	Average Life Hours
20	610=24"	38	0.36	59	110 or 220	Day-light, White, Green, Yellow.	2,000
40	1220=48"	38	0.42	106	110 or 220	Day-light, White, Green, Yellow.	2,000

### PACKING

Specifica- tion	Contents per case (pc)	Measurements of case (in)	Volume of case (cu. ft)	Weight (kg)	
				Gross	Net
24"	50	29×20×11	3.70	23	11
48"	50	53×20×11	6.75	37	20

MADE IN CHINA

YUNG SUN BRAND

古銅牌鎖

NO. 208

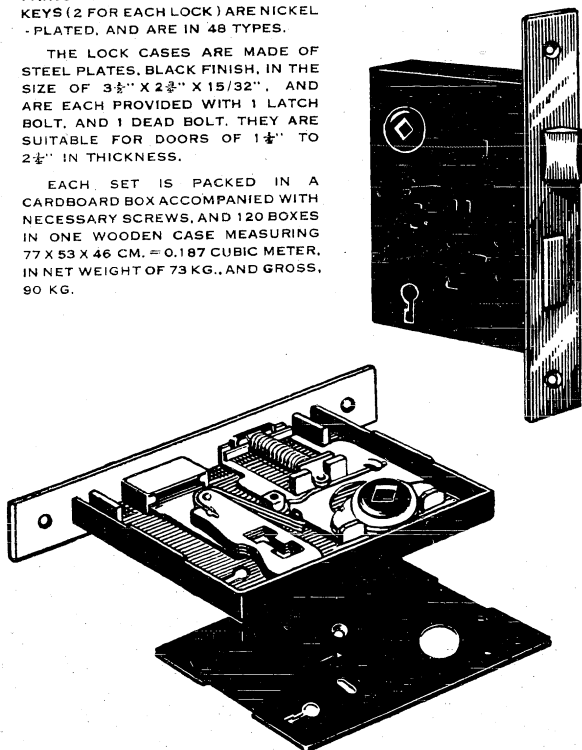
*Bronze Plated  
Inside Door Locks*

STAT

THE DOOR LOCKS OF "YUNG SUN" BRAND NO. 208 POSSESS A SHINING LUSTER, AS ALL THEIR EXTERIOR PARTS ARE BRONZE-PLATED. THE KEYS (2 FOR EACH LOCK) ARE NICKEL-PLATED, AND ARE IN 48 TYPES.

THE LOCK CASES ARE MADE OF STEEL PLATES, BLACK FINISH, IN THE SIZE OF  $3\frac{1}{2}$ " X  $2\frac{1}{2}$ " X  $1\frac{15}{32}$ ", AND ARE EACH PROVIDED WITH 1 LATCH BOLT, AND 1 DEAD BOLT. THEY ARE SUITABLE FOR DOORS OF  $1\frac{1}{4}$ " TO  $2\frac{1}{4}$ " IN THICKNESS.

EACH SET IS PACKED IN A CARDBOARD BOX ACCOMPANIED WITH NECESSARY SCREWS, AND 120 BOXES IN ONE WOODEN CASE MEASURING 77 X 53 X 46 CM. = 0.187 CUBIC METER, IN NET WEIGHT OF 73 KG., AND GROSS, 90 KG.

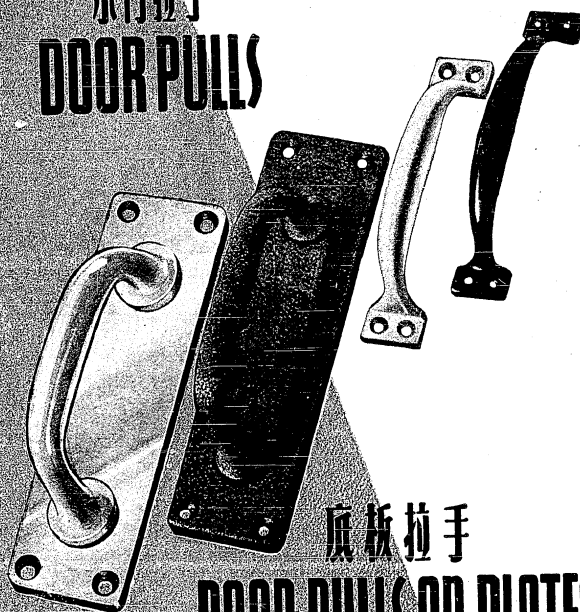


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SHANGHAI BRANCH: 27 CHUNG SHAN ROAD E1, SHANGHAI, CHINA  
CABLE ADDRESS: "SUNDRY" SHANGHAI



小門拉手  
DOOR PULLS



廣板拉手  
DOOR PULLS ON PLATES  
*for use on doors of various sizes*

中國雜品出口公司  
CHINA NATIONAL SUNDRIES EXPORT CORPORATION

STAT

## P A C K I N G

Specification	Contents		Measurement in cm.			Weight in kg.	
	Per	Case	L	M	H	Gross	Net
生鉄鍍底板拉手 Cast Iron Pulls Chrome Plates							
6"	50	Pairs	40	36	28	44	36
8"	50	"	50	36	31	56	46.5
10"	50	"	61	39	35	77	64.5
12"	50	"	70	40	36	92.5	78.5
烘漆底板拉手 Pulls with Plates black Japanned							
6"	100	Pairs	56	39	36	42	32.5
8"	50	"	58	28	39	35	27
10"	50	"	63	48	38	62	52
12"	50	"	70	48	39	73	61
生鉄小拉手 Cast Iron Door Pulls (Chrome or black Japanned)							
3"	100	doz.	48	26	29	21	17
4"	50	"	62	20	33	20	15
5"	50	"	75	25	38	31	24
6"	50	"	87	27	45	50	40
小拉手 Door Pulls (Chrome or black Japanned)							
4"	50	doz.	57	37	26	49	40
5"	50	"	59	31	40	73	62
6"	50	"	65	37	39	83	76

## CHINA NATIONAL SUNDRIES EXPORT CORPORATION

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 Cable Address: "SUNDRY" Peking  
 Shanghai Branch 27 Chung Shan Road E1, Shanghai, China  
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利用門鎖

利用

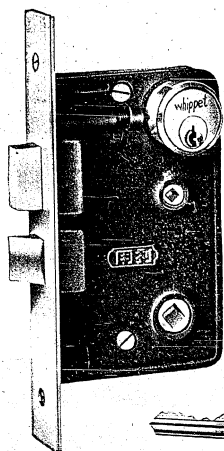
*whippet*  
**DOOR  
 LOCKS**



STAT

MADE IN CHINA





**whippet**

**No. 276**

(for inside or outside doors of  $1\frac{1}{2}$ " to 2" in thickness)

**Cylinder & Keys:**

Brass, 5 pin-tumbler with 3 Keys.

**Case:**

Iron, black finish,  $5\frac{1}{8}" \times 2\frac{1}{8}" \times \frac{3}{4}"$  fitted with 1 strike.

**Front & Knobs:**

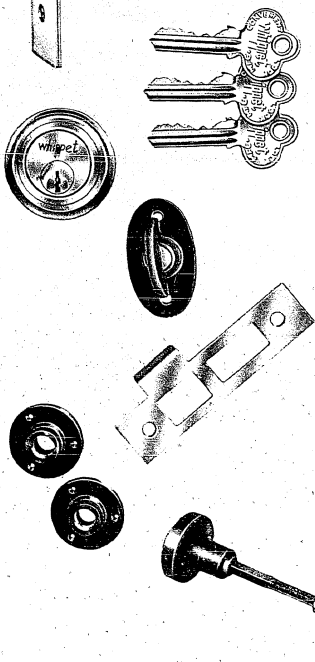
Front, strongly constructed. 1 Spindle Knob & 1 Thumb Knob (both made of bakelite).

**Bolts:**

1 Latch & 1 Dead Bolt.

**Packed:**

1 to a cardboard box with Screws & fitting instructions.



**DOOR  
LOCKS**

**No. 257**

(for inside doors of  $1\frac{1}{2}$ " to 2" in thickness)

**Cylinder & Keys:**

Brass, 5 pin-tumbler with 3 Keys.

**Case:**

Iron, black finish,  $4\frac{1}{8}" \times 3\frac{3}{4}" \times \frac{3}{4}"$  fitted with 1 strike.

**Front & Knob:**

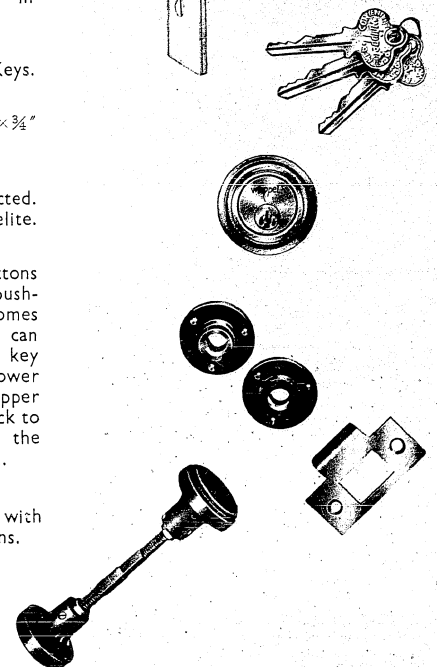
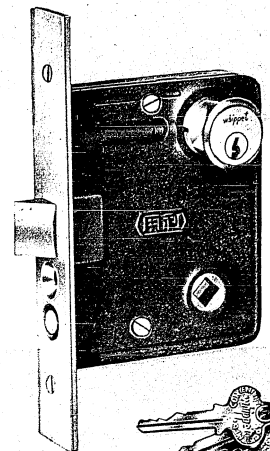
Front, strongly constructed. Spindle Knob made of bakelite.

**Bolt & Buttons:**

1 Latch Bolt. 2 Push Buttons (when the upper button is pushed in, the spindle knob becomes unturnable and the lock can only be opened with the key provided. But when the lower button is pushed in, the upper one is automatically set back to its original position and the spindle knob turns as usual.

**Packed:**

1 to a cardboard box with Screws & fitting instructions.



No.	Contents per case (doz)	Measurements of case (cm.)			Weight (kg.)	
		length	width	height	gross	net
257	5	63	48	47	92	78
276	5	64	50	55	101	85

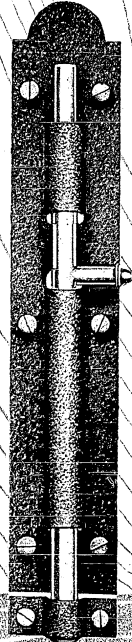
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 CABLE ADDRESS: "SUNDRY" SHANGHAI

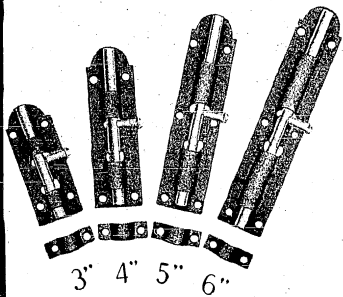
STAT

鐵插肖

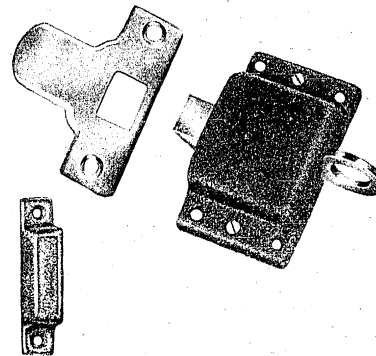
IRON  
TOWER  
BOLTS



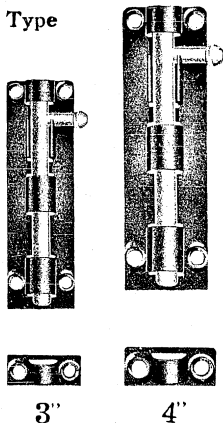
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CHINA NATIONAL SUNDRIES EXPORT CORPORATION

**C Type****C Type (in one Black Japanned Plate)**

Length	Diameter of Bolt (mm)	Width of Plate (mm)	No. of Screw Holes	Size of Screw No.
3"	7.14	31.15	4	5
4"	7.14	31.15	4	5
5"	7.14	31.15	6	5
6"	7.14	31.15	6	5

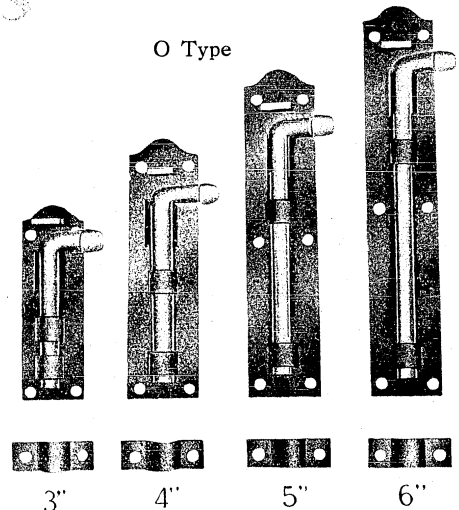
**TRANSOM CATCHES**

Transom Catches in the usual size of 2½", designed for use in turning sash, are made of iron plate, finished in black. They are equipped with chromium plated spring bolt and a loop for fastening string. Each catch is supplied with only one strike, i.e. either one inward or one outward strike to be decided at the time of order. The size of screws for the catch is No. 5.

**IRON TOWER BOLTS****J Type****J Type (in one Black Japanned Plate)**

Length	Diameter of Bolt (mm)	Width of Plate (mm)	No. of Screw Holes	Size of Screw No.
3"	7.94	30	4	5
4"	7.94	30	4	5
5"	7.94	30	6	5
6"	7.94	30	6	5

Length	3"	4"	5"	6"
Diameter of Bolt (mm)	7.14	7.14	7.14	7.14
Width of Plate (mm)	25.4	28.58	28.58	28.58
No. of Screw Holes	4	4	6	6
Size of Screw No.	5	5	5	5

**O Type**

## PACKING

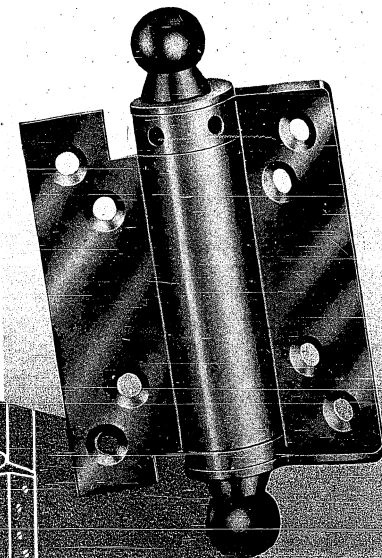
Name of Article	Specification	Contents per case (doz)	Measurements of case (cm.)			Weight (kg.)	
			length	width	height	gross	net
Iron Tower Bolts (O Type)	3"	100	42	48	33	84	75
	4"	100	52	48	35	102	91
	5"	100	61	48	35	126	113
	6"	100	71	49	35	145	131
Transom Catches	2½"	50	68	30	44	72	62
Iron Tower Bolts (C & J Types)	3"	100	55½	47	34	75	65
	4"	100	56	57	34	98	86
	5"	100	61	48½	34	124	112
	6"	100	76	56	34	140	125

N. B. The length of wood screws used for the above three relevant articles depends upon the thickness of the wood on which the relative articles are to be screwed. The above are all supplied without screws.

## CHINA NATIONAL SUNDRIES EXPORT CORPORATION

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Shanghai Branch 27 Chung Shan Road E1, Shanghai, China  
Cable Address: "SUNDRY" Shanghai

單彈簧鉸鏈



**HERO BRAND**  
**SPRING HINGES**  
**SINGLE ACTION**

# HERO BRAND

## SPRING HINGES SINGLE ACTION

The "Spring Hinges, Single Action," used for right and left hand doors, are made of fine quality and highly practicable for general use. They will give satisfaction to you after application of them.

Each pair provided with screws.

## PACKING

Specification	Contents per case	Measurement (unit: cm)			Weight per case (unit: Kg)	
		L	W	H	Gross	Net
3"	100 prs	56	31	30	56	48
4"	100 "	55	36	34	77	69
5"	50 "	51	24	41	58	51
6"	50 "	58	27	41	69	61
8"	20 "	56	34	33	86	77

for further informations write to:

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CABLE ADDRESS: "SUNDRY" SHANGHAI

唯一牌  
木柄羅絲批

STAT

**UNIQUE  
BRAND  
SCREW DRIVER**



中國雜品出口公司  
CHINA NATIONAL SUNDRIES EXPORT CORPORATION

## SPECIFICATIONS

- Handle made of selected wooden material, carved with seven troughs to prevent slipping.
- Blade forged from fine medium carbon steel, bolted to the handle and is chrome plated.



  
**SCREW-DRIVER**

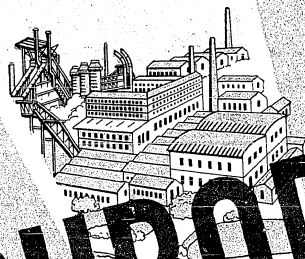
## PACKING

Specification	Contents per case	Measurements (cm.)			Weight per case (kg.)	
		Length	Width	Height	Gross	Net
2"	100 doz.	56	37	44	58	48
2½"	100 „	56	39	44	60	50
3"	100 „	59	44	47	73	62
4"	80 „	77	53	36	86	76
5"	50 „	59	53	37	75	65
6"	50 „	67	57	39	88	76
8"	40 „	77	42	51	104	88
10"	25 „	68	48	45	94	76
12"	25 „	70	54	48	110	90

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 Cable Address: "SUNDRY" Shanghai

# Safety First



# AURORA

Fire Extinguisher



震旦烟火機





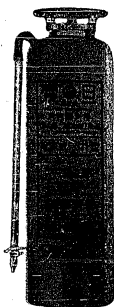
## SPECIFICATION

All Aurora Fire Extinguishers are made of mild steel plates, with seams welded.

All models of extinguishers had been tested to a pressure of 24.5 kilos per square centimetre (model 2 19/0004 Tested 11 kg/cm<sup>2</sup>) and coated with tin (with the exception of the wheels type) to prevent from corrosion. They are practically everlasting.

The Aurora Chemical Foam, being sticky, will firmly adhere to the burning articles.

The specific gravity of the Aurora Chemical Foam is lighter than that of oil, so fire, caused by gasoline, petroleum, etc. could be easily extinguished.



Z 19/0005-6



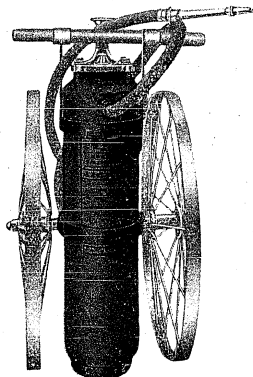
Z 19/0001-2



Z 19/0003



Z 19/0004



Z 19/0007-10

Art. No.	MODEL	CAPACITY	SUITABLE FOR
Z 19/0004	"Pressure Type" Carbon Tetra-chloride Fire Extinguisher	¾ gallon (1 litre) nominal	Extinction of all electrical fires
Z 19/0001	Standard "37" Foam Type Fire Extinguisher	2½ gallons (8.3 litres) nominal	Factories Schools, offices Homes, etc.
Z 19/0002	Standard "37" Soda acid Type Fire Extinguisher	2½ gallons (8.3 litres) nominal	Factories Schools, offices Houses etc.
Z 19/0003	Standard "53" marine Type Foam Fire Extinguisher	2½ gallons (8.3 litres) nominal	Ships, Buses, Transportation cars, etc.
Z 19/0005	"Factory Size" Foam Type Fire Extinguisher	5 gallons (16.6 litres) nominal	Factories godowns, Hotels, etc.
Z 19/0006	"Factory Size" Soda acid Type Fire Extinguisher	5 gallons (16.6 litres) nominal	Factories godowns, Hotels, etc.
Z 19/0007	"Wheel Type" Foam Fire Extinguisher	22 gallons (65 litres) nominal	Paint and Varnish Factories
Z 19/0008	"Wheel Type" Soda acid Fire Extinguisher	22 gallons (65 litres) nominal	Paint and Varnish Factories
Z 19/0009	"Wheel Type" Foam Fire Extinguisher	40 gallons (124 litres) nominal	Paint and Varnish Factories
Z 19/0010	"Wheel Type" Soda acid Fire Extinguisher	40 gallons (124 litres) nominal	Paint and Varnish Factories



## PACKING

Art. No.	Contents per case	Measure-ments (cm.) L W H	Wt. (kg) gross net
Z 19/0004	24 Pcs.	59 42 55	82 72
Z 19/0001 (Without chemical)	12 Pcs.	80 65 68	70 58
Chemical for above	24 Sets	62 43 42	58 48
Z 19/0002 (Without chemical)	12 Pcs.	80 65 68	70 58
Chemical for above	24 Sets	47 38 51	31 24
Z 19/0003 (Without chemical)	12 Pcs.	80 65 68	75 61
Chemical for above	24 Sets	62 43 42	58 48
Z 19/0005 (Without chemical)	6 Pcs.	84 59 84	115 90
Chemical for above	12 Sets	50 40 53	58 48
Z 19/0006 (Without chemical)	6 Pcs.	84 59 84	115 90
Chemical for above	12 Pcs.	40 30 42	31 24

中國雜品出口公司  
CHINA NATIONAL SUNDRIES EXPORT CORPORATION

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STAT

C-24 C B & AUTOMATIC DESK TYPE  
*Telephone Sets*



中國儀器進口公司  
CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION  
(IMPORTERS & EXPORTERS)

### C-24 C. B. & AUTOMATIC DESK TYPE TELEPHONE SETS

#### Application :

The above-mentioned telephone sets can be suitably used for subscribers of both C.B. and automatic central offices at a power supply of 24V, 48V, or 60V.

#### Description :

1. C-24 Desk type telephone sets are manufactured in two different models, i.e. C.B. and automatic. Bakelite apparatus blank is provided in the set for C.B. manual services. If the apparatus blank is dismantled and a dial is mounted instead, an automatic telephone set is obtained.

2. Standard casing and microtelephone handset are moulded in bakelite power, exhibiting smooth and elegant appearances. The capsule type transmitter and receiver units are employed in the handset so that they can be easily replaced by the maintenance staff.

#### Technical Data :

1. These telephone sets can be suitably used at room temperature of  $0^{\circ}$  -  $30^{\circ}$  C. and relative humidity up to 80%.

2. Through an attenuation of 3.5 Nepers, clear conversation can still be maintained between two telephone sets under a noise level of 60 D.B.

3. Efficiency of Ringers: At frequencies of 162/3-25 cycles A.C., the starting current of ringers should not exceed 3.5 M.A., while the working current should be 6-12 M.A.

4. Antiside Tone Effect: At a line impedance of 500-700 ohms, the antiside tone effect will be maximum.

5. The impulse speed of dials, which are to be fitted on automatic telephone sets, is  $10 \pm 1$  time per second. The ratio of interruption is  $1.6 \pm 0.3 : 1$  or  $2 \pm 0.3 : 1$  (the ratio should be specified when ordering).

6. The D.C. resistance of transmitter is 80-120 ohms, while that of receiver is  $2 \times 28 \pm 10$  ohms.

7. The length of Cords :

Desk set - The length of the cord between the telephone set proper and the external part of the micro-telephone is 1280 m.m.

Desk set - The length of the cord between the telephone set proper and the terminal block is 1500 m.m.

8. Volume :

Desk set . . . . .  $152 \times 243 \times 175$  m.m.

**CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION**

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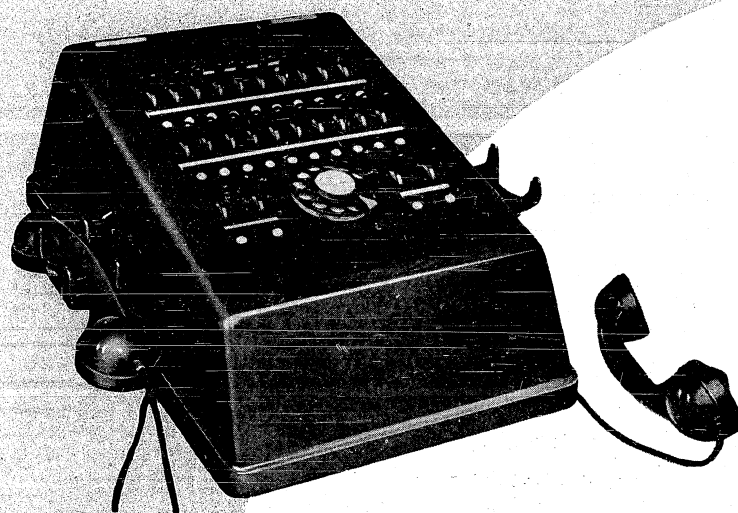
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**DK2-20**

**INTERDEPARTMENT**

**DISPATCHING TELEPHONE SWITCHBOARD**



**中國儀器進口公司**

**CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION**

**(IMPORTERS & EXPORTERS)**

## DKZ-20 INTERDEPARTMENT DISPATCHING TELEPHONE SWITCHBOARD

### Application:

The interdepartment dispatching telephone switchboard is of C.B. type used for dispatching telephone calls within a shop of a large factory or within a small factory.

### Description:

This desk type switchboard is manufactured after DKZ-20 type interdepartment dispatching telephone switchboard being a new product of China made up to the recognized international standard. It provides two separate positions for a telephone operator and a dispatcher, enabling them to handle the following telephonic calls:

1. Either the operator or the dispatcher may communicate with a direct subscriber, or communicate simultaneously with two or three direct subscribers. Calls of such nature may be carried out in two groups at the same time.
2. The dispatcher may communicate with subscribers of C.B. or automatic central offices. In case of necessity, the subscriber may be held on the line temporarily.
3. The dispatcher may communicate with the factory dispatcher.

4. Signalling lamps and alarm bells are provided on the switchboard. In case a conference is organized through a DK3 type factory dispatching telephone switchboard, calling signals of "appealing for conversation" may be originated from the DKZ-20 type switchboard.

### Technical Data:

1. This switchboard provides 20 direct subscriber lines, the maximum allowable loop resistance of which is 400 ohms.
2. This switchboard provides one trunk circuit to automatic or C.B. central offices and one trunk circuit to DK3 type factory dispatching telephone switchboard (the latter may be connected to the central office alternatively). The maximum allowable loop resistance of the trunks is 800 ohms.
3. Ringing source is supplied from 110V or 220V mains through a ringing transformer. The power source for subscriber sets is supplied from 24V storage battery, with an allowable limit of  $\pm 2V$ .
4. Dimensions: 230 x 507 x 540 mm (including both the microtelephone and the cradle).

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